

SEQUENCE LISTING

<110> Xu, Jiangchun
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 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
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<120> COMPOSITIONS AND METHODS FOR THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.42715C15

<140> US

<141> 2000-06-13

<160> 814

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 1

tttttttttt	tttttcacag	tataacagct	ctttatttct	gtgagttcta	ctaggaaatc	60
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ccaggggggtc	cagtcctct	ccttacttca	tccccatccc	atgccaaagg	aagacctcc	180
ctccttggtc	cacagccttc	tctaggttc	ccagtgcctc	caggacagag	tgggttatgt	240
tttcagctcc	atccttgctg	tgagtgtctg	gtgcgttggtg	cctccagctt	ctgctcagtg	300
cttcattggac	agtgtccagc	acatgtcact	ctccactctc	tcagtgtgga	tccactagtt	360
ctagagcggc	cgccaccgcg	gtggagctcc	agcttttggtt	cccttttagtg	aggggttaatt	420

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<210> 2
<211> 816
<212> DNA.
<213> Homo sapien
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<220>
<221> misc_feature
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<223> n = A,T,C or G
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<210> 3
<211> 773
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G
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<400> 3							
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tcctgctcct	cactggtgat	aaacgagccc	cgttccttgt	tgtgatcatg	atgaacaacc		120
tcctcaaaag	tcagaaccgg	agtcacacag	gcatctgtgc	cgtaaagat	ttgacaccac		180
tctgccttcg	tcttctttgc	aaatacatct	gcaaaacttct	tcttcatttc	tggccaatca		240
tccatgctca	tctgattggg	aagttcatca	gactttagtc	canntccttt	gatcagcagc		300
tcgtagaact	ggggttctat	tgctccaaca	gccatgaatt	ccccatctgc	tgtcctgtaa		360

```

gtcgtataga aaggtgctcc accatccaac atgtttctgtc ctcgaggggg ggcccgggtac 420
ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgctcgtt ttacaacgtc 480
gtgactggga aaaccctggg cgttaccaac ttaatcgctt tgcagcacat ccccttttcg 540
ccagctgggc gtaatanoga aaaggcccg cccgacgccc cttccaacag ttgcgcacct 600
gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgngggg tttngttggt 660
acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgtcccc tttcnccttt 720
cttcccttcc tttcncncn ctttcccccg gggtttcccc cntcaaacc cna 773

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<210> 4
<211> 828
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

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<400> 4
cctcctgagt cctactgacc tgtgctttct ggtgtggagt ccagggctgc taggaaaagg 60
aatgggcaga cacagggtgta tgccaatgtt tctgaaatgg gtataatttc gtccctctcct 120
tcggaacact ggctgtctct gaagacttct cgtcagttt cagtgaggac acacacaaag 180
acgtgggtga ccatgttggt tgtggggtgc agagatggga ggggtggggc ccacctgga 240
agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgtgtcct 360
gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
ctanagcggc cgccaccgcg gtgganctcc ancttttggt ccccttagtg agggttaatt 480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
attccacaca acatacganc cggaaacata aantgtaaac ctgggggtgcc taatgantga 600
ctaactcaca ttaattgctg tgcgctcact gcccgtttc caatcnggaa acctgtcttg 660
ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgctgtt tgggcgctct 720
tccgcttctc cnetcantta ntccctncnc tcggtcattc cggctgngc aaaccgggtc 780
accnctcca aagggggtat tccggtttcc ccnaatccgg gganance 828

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<210> 5
<211> 834
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

```

```

<400> 5
tttttttttt tttttactga tagatggaat ttattaagct tttcacatgt gatagcacat 60
agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatgtt 120
attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taattttatac 180
tgaagtaaat ctagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagtta 240
acatttgcca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360

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<210> 6
<211> 818
<212> DNA
<213> Homo sapien
```

<400> 6

```
<210> 7
<211> 817
<212> DNA
<213> Homo sapien
```

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<220>
<221> misc_feature
<222> (1) ... (817)
<223> n = A,T,C or G
```

<400> 7

tttttttttt	tttttttttt	tggctctaga	gggggtagag	ggggtgctat	agggtaaata	60
cgggccctat	ttcaaagatt	tttaggggaa	ttaattctag	gacgatgggt	atgaaactgt	120
ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggtga	180
aagtggtttg	gtttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagtg	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300


```

caggatcatgg ggttgtnngc caactggggg ccncaacgca aaanggcnc gggcctcngn      300
caccatccc angacgggc tacactnctg gacctccnc tccaccactt tcatgcgctg      360
ttentacccg cgnatntgtc ccantgttt cngtgcenac tccancttct nggacgtgag      420
ctacatacgc cgggantcnc nctcccgtt tgccctatc cactnccan caacaaattt      480
cncctantg caccnattec cacttttnc agntttcnc nncgngett cttntaaaag      540
ggttgancce cggaaaatnc cccaaagggg gggggccngg tacccaactn cccctnata      600
gctgaantcc ccatnaccnn gnetcnatgg anccntcnc ttttaannac ttctnaactt      660
gggaanance ctgcncntn ccccnttaa tccnccctg cnangnnct ccccnntcc      720
ncccnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnnn cctcanttcg      780
ccanccctcg aaatcgccn c                                     801

```

<210> 10

<211> 789

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(789)

<223> n = A,T,C or G

<400> 10

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cagtctatnt ggccagtgtg gcagctttcc ctgtggctgc cgggtgccaca tgccctgtccc      60
acagtgtggc cgtgggtgaca gcttcagccg cctcaccgg gttcaccttc tcagccctgc      120
agatcctgcc ctacacactg gctccctct accaccggga gaagcagggtg ttctgtccca      180
aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttctgc      240
caggccctaa gcttgagct ccttcccta atggacacgt ggggtgctgga ggcagtggcc      300
tgctcccacc tccaccggc ctctgcccgg cctctgctg tgatgtctcc gtacgtgtgg      360
tggtgggtga gccaccgan gccagggtgg ttccgggccc gggcatctgc ctggacctgc      420
ccatcctgga tagtgttcc tgctgtccca ngtggcccca tccctgttta tgggtccat      480
tgtccagctc agccagtctg tcaactgcta tatgggtgtc gccgcaggcc tgggtctggt      540
cccatttact ttgtacaca ggtantattt gacaagaacg anttggccaa atactcagcg      600
ttaaaaaatt ccagcaacat tgggggtgga aggcctgcct cactgggtcc aactccccgc      660
tctgttaac cccatggggc tgccggcttg gccgccaat tctgttgctg ccaaantnat      720
gtggtctct gctgccact gttgtggct gaagtgcnta cngcncanct nggggggtng      780
gnggttccc                                     789

```

<210> 11

<211> 772

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 11

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cccaccctac ccaaataatta gacaccaaca cagaaaagct agcaatggat tcccttctac      60
tttgttaaat aaataagtta aatatttaaa tgccgtgtgc tctgtgatgg caacagaagg      120
accaacaggg cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc      180

```

```

tgtgggctga ggggacctgg ttcttgtgtg ttgccccctca ggactcttcc cctacaaata      240
actttcatat gttcaaatec catggaggag tgtttcatcc tagaaactcc catgcaagag      300
ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt      360
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc      420
ctgagcctgg gtaatccacc tgcagagtc cgcattcca gtgcatggaa ccttctggc      480
ctccctgtat aagtccagac tgaaccccc ttggaaggnc tccagtcagg cagccctana      540
aactggggaa aaaagaaaag gacgccccan cccccagctg tgcantacg cacctcaaca      600
gcacagggtg gcagcaaaaa aaccacttta ctttggcaca acaaaaaact ngggggggca      660
accccggcac ccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca      720
ggcccnccac ccnaatntt gctgggaaat ttttctccc ctaaattntt tc              772

```

<210> 12

<211> 751

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

<400> 12

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gccccaatc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaa      60
agctgattga agcaaccctc tactttttgg tcgtgagcct tttgcttggg gcaggtttca      120
ttggctgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg      180
aagtanggtg agtctctaaa atccgtatag ttggtgaagc cacagcactt gagccctttc      240
atggtgggtg tccacacttg agtgaagtct tcttgggaac cataatcttt cttgatggca      300
ggcactacca gcaacgtcag ggaagtgtct agccattgtg gtgtacacca aggcgaccac      360
agcagctgen acctcagcaa tgaagatgan gaggangatg aagaagaacg tcncgagggc      420
acacttgctc tcagtcttan caccatanca gccntgaaa accaananca aagaccacna      480
cnccggctgc gatgaagaaa tnaccccneg ttgacaaact tgcattggcag tggganccac      540
agtggccena aaaatcttca aaaaggatgc cccatcnatt gaccccccaa atgcccactg      600
ccaacagggg ctgccccacn cncnnaacga tganccnatt gnacaagatc tncntggtct      660
tnatnaacnt gaacctgcn tngtggctcc tgttcaggnc cnnggcctga cttctnaann      720
aangaactcn gaagncccca cngganannc g              751

```

<210> 13

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(729)

<223> n = A,T,C or G

<400> 13

```

gagccaggcg tccctctgcc tgcccactca gtggcaacac ccgggagctg ttttgtcctt      60
tgtggancct cagcagtncc ctctttcaga actcantgcc aaganccttg aacaggagcc      120
accatgcagt gcttcagctt cattaagacc atgatgatcc tcttcaattt gctcatcttt      180
ctgtgtgggt cagccctgtt ggcagtgggc atctgggtgt caatcgatgg ggcacacctt      240

```

```

ctgaagatct tcggggccact gtctgtccagt gccatgcagt ttgtcaacgt gggctacttc      300
ctcatcgtag cggggtgtgt ggtcttagct ctagggttcc tgggctgcta tgggtgctaag      360
actgagagca agtgtgccct cgtgacgttc ttcttcatcc tctctctcat cttcattgct      420
gaggttgcaa tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttctgacgt      480
tgctggtaat gcctgccatc aanaaaagat tatgggttcc caggaanact tcaactcaagt      540
gttggaacac caccatgaaa gggctcaagt gctgtggctt cnnccaacta tacggatttt      600
gaagantcac ctacttcaaa gaaaanagtg cctttccccc atttctgttg caattgacaa      660
acgtcccaaa cacagccaat tgaaaacctg cacccaaccc aaanggggtcc ccaaccanaa      720
attnaaggg                                     729

```

<210> 14

<211> 816

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

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tgctcttctt caaagttggt cttgttgcca taacaaccac cataggtaaa gcggggcgcag      60
tgttcgctga aggggttgta gtaccagcgc gggatgctct ccttgacagag tctgtgtct      120
ggcagggtcca cgcagtgcc tttgtcactg gggaaatgga tgcgctggag ctctgcaaag      180
ccactcgtgt atttttcaca ggcagcctcg tccgacgcgt cggggcagtt ggggggtgtct      240
tcacactcca ggaaactgtc natgcagcag ccattgtctg agcgggaactg ggtgggctga      300
cangtgccag agcacactgg atgggcgctt tccatgnnan gggccctgng ggaaagtccc      360
tganccccc anctgcctct caaangcccc acctgcaca ccccgacagg ctagaatgga      420
atcttcttcc cgaaaggtag ttnttcttgt tgcccaance anccccntaa acaaactctt      480
gcanatctgc tccgnggggg tentantacc ancgtgggaa aagaacccca ggcngcgaac      540
caancttggt tggatncgaa gcnataatct nctnttctgc ttggtggaca gcaccantna      600
ctgtnnanct ttagncntg gtctctntgg gttgnncttg aacctaatcn ccnntcaact      660
gggacaagggt aantngcent cctttnaatt cccnancntn cccctggtt tgggggttttn      720
cncnctcta cccagaaan nccgtgttcc cccccaacta ggggcnaaa ccnnttnttc      780
cacaacctn cccacccac gggttcngnt ggttng                                     816

```

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

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ccaaggcctg ggcaggcata nacttgaagg tacaaccca ggaaccctg gtgctgaagg      60
atgtggaaaa cacagattgg cgctactgc ggggtgacac ggatgtcagg gtagagagga      120
aagacccaaa ccaggtggaa ctgtggggac tcaaggaang cacctacctg ttccagctga      180
cagtgactag ctgagaccac ccagaggaca cggccaacgt cacagtcact gtgctgtcca      240

```

```

ccaagcagac agaagactac tgccctcgcat ccaacaangt gggtegetgc cggggctctt      300
tcccacgctg gtactatgac cccacggagc agatctgcaa gagtttctgt tatggaggct      360
gcttgggcaa caagaacaac taccttcggg aagaagagtg cattctancc tgtcnggggtg      420
tgcaagggtg gcctttgana ngcanctctg gggctcangc gactttcccc cagggccctt      480
ccatggaaag ggcgccatcca ntgtttctctg gcacctgtca gcccaccag ttcgctgca      540
ncaatggctg ctgcatcnac antttctctg aattgtgaca acacccccca ntgcccccaa      600
ccctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacncccg      660
cnctctcntt tccccnntn aacaaagggc nctngcnttt gaactgccc aaccnnggaa      720
tctnccnngg aaaaantncc cccctgggtt cctnnaance cctcncnaa anctncccc      780
ccc                                                                 783

```

```

<210> 16
<211> 801
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

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```

<400> 16
gccccaatc cagctgccac accaccacg gtgactgcat tagttcggat gtcatacaaa      60
agctgattga agcaaccctc tacttttttg tegtgagcct tttgcttggt gcaggtttca      120
ttggctgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg      180
aagtaggggtg agtctcaaaa atccgtatag ttgggtgaagc cacagcactt gagccctttc      240
atgggtgggtg tccacacttg agtgaagtct tccctgggaac cataatcttt cttgatggca      300
ggcactacca gcaacgtcag gaagtgtctca gccattgtgg tgtacaccaa ggcgaccaca      360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca      420
cacttgctct cegtcttagc accatagcag cccangaaac caagagcaaa gaccacaacg      480
ccnctgctga atgaaagaaa ntaccacgtg tgacaaactg catggccact ggacgacagt      540
tggcccgaan atcttcagaa aagggatgcc ccacgtattg aacacccana tgcccactgc      600
cnacaggggt gcnccnncn gaaagaatga gccattgaag aaggatcttc ntggctctta      660
tgaactgaaa cctgcatggt tggccctgtg tcagggctct tggcagtga ttctganaaa      720
aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgc ctgaattggc      780
ggccaaggan cctgccccn g                                                                 801

```

```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 17
gtgagagcca ggcgtccctc tgccctgcca ctgagtggca acacccggga gctgttttgt      60
cctttgtgga gcctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg      120
agccaccatg cagtgttca gttcattaa gaccatgatg atcctcttca atttgcctcat      180

```



```

nggcgaatcg taatnaggcg tgcgcgcgca atntgtcncc gtttatntn ccagcntcnc      240
ctnccnacc c tacntcttcn nagctgtcnn acccctngtn cgnaccccc naggtcggga      300
tcgggtttnn nntgaccng cnnccccctc cccctccat nacgancnc ccgcaccacc      360
nanngcncgc nccccgnct ctgcgcnc ctgtctntn cccctgtngc ctggcncngn      420
accgcattga cctcgcenn ctncnngaaa ncgnanacgt ccgggttggn annancgtg      480
tggnnnngcg tctgcncgc gttccttcn ncncttcca ccatcttct tacnggtct      540
ccncgcctc tcnnncacnc cctgggacgc tntcctntgc ccccttnac tccccctt      600
cgncgtgnc cgnccccacc ntcatttnca nacgntcttc acaannnct ggntnnctc      660
cnancngncn gtcancnag ggaagggngg ggnncnntg nttgacgttg ngngangtc      720
cgaanantcc tcnctcan cctaccct cgggcgnct ctngttnc aacttancaa      780
ntctcccccg ngngcncntc tcagcctcnc ccccccct ctctgcantg tctctgctc      840
tnaccnntac gantttcgn cncctctt cc      872

```

```

<210> 24
<211> 815
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

```

```

<400> 24
gcatgcaagc ttgagtattc tatagngtca cctaaatanc ttggcntaat catggtenta      60
nctgncttcc tgtgtcaa atgtatacnaa tanatatgaa tctnatntga caaganngt      120
tentncatta gtaacaantg tntgtccat cctgtengan canattccca tnnattncgn      180
cgcattcnncn gencantatn taatngggaa ntcnnntnnn ncaccnncat ctatctncc      240
gnccttgac tggagagat ggatnanttc tntntgacc nacatgttca tcttgattn      300
aanaccccc cgngnccac cgggtngng cnagcncntc ccaagacct ctgtggaggt      360
aacctgcgtc aganncatca aacntgggaa accgcncnc angtnnaagt ngnnncanan      420
gateccgtcc agnnttnacc atccttctc agcgcctt tntgtgctt anagnnagc      480
gtgtccnanc cncatcaat ganacgcgc agnccanccg caattnggca caatgtcnc      540
gaacccccct gggggantna tncaaaancc caggattgtc cncncangaa atccncanc      600
ccnccctac cennctttg gacngtgacc aanteccgga gtncagtc ggcngnctc      660
ccccaccggt nncntgggg ggggtgaant cngnntcanc cngncgaggn ntcgnaagga      720
accggnctn ggncgaanng ancnntcnga agnccnct cgtataacce cccctcncca      780
nccnancgnt agntcccccc cngggtncgg aangg      815

```

```

<210> 25
<211> 775
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

```

```

<400> 25
ccgagatgtc tcgtccgtg gccttagctg tgctcgcgt actctctctt tctggcctgg      60

```



```

cgctcanacc tcacancctc ccnacnange ctataangaa nannaataga nctgtncnnt      120
atntntacnc tcatanncct cnnnacccac tccctcttaa ccntactgt gcctatngcn      180
tnnctantct ntgcgcctn cnanccaccn gtgggcecnac cncnngnatt ctcnatctcc      240
tcnccatntn gectananta ngtncataacc ctatacctac nccaatgcta nnnctaancn      300
tccatnantt annntaacta ccactgacnt ngactttcnc atnanctcct aatttgaatc      360
tactctgact cccacngcct annnattage ancntcccc nacnatntct caaccaaate      420
ntcaacaacc tatctanctg ttncceaacc nttncctcgg atccccnnac aacccccctc      480
ccaaataccc nccacctgac ncetaaccen caccatcccg gcaagccnan ggncatttan      540
ccactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana      600
aatnctcctn naatttactn ncantnccat caancccaen tgaaacnnaa cccctgtttt      660
tanatccctt ctttcgaaaa ccnacccttt annncecaac ctttngggcc ccccnctnc      720
ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaaggcna anannntccg      780
canatectat cecttanttn ggggnccctt nccnggggcc cc                        822

```

<210> 30

<211> 787

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(787)

<223> n = A,T,C or G

<400> 30

```

eggcgcctg ctctggcaca tgctctctga atggcatcaa aagtgatgga ctgcccattg      60
ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctccccctt      120
gtctgcagga tttgatgtct gaagtcgtgg agtgtggcct ggagctctct atctacatna      180
gctggaagcc ctggagggcc tctctcgcca gctccccct tctctccacg ctctccangg      240
acaccagggg ctccaggcag cccattattc ccagnangac atgggtgtttc tccacgcgga      300
cccatggggc ctgnaaggcc aggggtctct ttgacaccat ctctcccgtc ctgcttgcca      360
ggcctgggga tccactantt ctanaacggg cgcacccncg gtgggagctc cagcttttgt      420
tccnttaat gaaggttaat tgcncgcttg gcgtaatcat nggtcanaac tntttcctgt      480
gtgaaattgt ttntccctc ncnatccnc ncnacatacn aacccggaan cataaagtgt      540
taaagcctgg gggtnccctn nngaataaac tnaactcaat taattgcgtt ggctcatggc      600
ccgctttcnc ttnggaaaa ctgtentccc ctgcnttntt gaatcgggca ccccccnggg      660
aaaagcgggt tgcnttttng ggggntcctt ccncttcccc cctcnctaan cctnccgct      720
cggtcgttnc nggtngcggg gaangggnat nnnctccnc naagggggng agnnngntat      780
ccccaaa

```

<210> 31

<211> 799

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(799)

<223> n = A,T,C or G

<400> 31

```

tttttttttt ttttttttggc gatgctactg ttttaattgca ggaggtgggg gtgtgtgtac 60
catgtaccag ggctattaga agcaagaagg aaggagggag ggcagagcgc cctgctgagc 120
aacaaaggac tctgcagcc ttctctgtct gtctcttggc gcaggcacat ggggaggcct 180
ccgcaggggt gggggccacc agtccagggg tgggagcact acanggggtg ggagtgggtg 240
gtggctggtn cnaatggcct gncacanatc cctacgattc ttgacacctg gatttcacca 300
ggggaccttc tgttctccca nggnaacttc ntnnatctcn aaagaacaca actgtttctt 360
cngcanttct ggctgttcat ggaaagcaca ggtgtccnat ttnggctggg acttgggtaca 420
tatggttccg gcccacctct ccctcnaaen aagtaattca ccccccccn cntctnttg 480
cctgggacct taantacca caccggaact canttanta ttcatcttng gntgggcttg 540
ntnatcnecn cctgaangcg ccaagttgaa aggccacgcc gtncnccnctc cccatagnan 600
nttttnnctn canctaagtc cccccnggc aacnatccaa tcccccccn tgggggcccc 660
agcccanggc ccccgntctg ggnnnccngn cncgnantcc ccaggntctc ccantcngnc 720
ccnnngcncc cccgcacgca gaacanaagg ntngagccnc cgcannnnnn nggtnncnac 780
ctcgcctccc ccnncgnng
799

```

```

<210> 32
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

```

```

<400> 32
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
ttttncnag ggcaggttta ttgacaacct cncgggacac aancaggctg gggacaggac 120
ggcaacaggc tccggcgccg gcggcgccgg cctacctgc ggtaccaaata ntgcagcctc 180
cgctcccgt tgaatnttct ctgcagctgc aggatgcctt aaaacagggc ctgggcnctn 240
ggtgggcacc ctgggatttn aatttccacg ggcacaatgc ggtcgcancc cctcaccacc 300
nattaggaat agtggtnnta ccnccncccg ttggcnact ccccntggaa accacttntc 360
gcggctccgg catctgggtc taaaccttgc aaacnctggg gccctctttt tggttantnt 420
ncnccacaca atcatnactc agactggcnc gggctggccc caaaaaanct ccccaaaacc 480
ggncatgtc ttncgggggt tgcctgnatn tncatcacct cccgggcnca ncaggncaac 540
ccaaaagtcc ttngggcccn caaaaaanct ccggggggnc ccagtttcaa caaagtcac 600
ccccttggcc cccaaatcct cccccgntt nctgggtttg ggaacccacg cctctnnctt 660
tggnnggcaa gntggntccc ccttcgggcc cccgggtggc ccnctctaa ngaaaacncc 720
ntcctnnnca ccatccccc nngnnacgnc tancaangna tccctttttt tanaaacggg 780
ccccccncc
789

```

```

<210> 33
<211> 793
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

```


<400> 35

```

ggggatctct anactnacct gnatgcatgg ttgtcggtgt ggtcgctgtc gatgaanatg      60
aacaggatct tgccttgaa gctctcggt gctgtnttta agttgctcag tctgccgtca      120
tagtcagaca cnetcttggg caaaaaacan caggatntga gtcttgattt cacctccaat      180
aatcttcngg gctgtctgct cgggtgaactc gatgacnang ggcagctggt tgtgtntgat      240
aaantccanc angttctcct tgggtgacctc ccttcaaag ttgttccggc cttcatcaaa      300
cttctnnaan angannancc canctttgtc gagctggnat ttgganaaca cgctactggt      360
ggaaactgat cccaaatggg atgtcatcca tgcctctgctc tgcctgcaaa aaacttgctt      420
ggcncaaate cgactcccn tccttgaaag aagccnatca cccccctc cctggactcc      480
nncaangact ctncgcctnc cccntccnng cagggttggg ggcannccgg gccentgcgc      540
ttcttcagcc agttcacnat nttcatcagc cctctgcca gctgtntat tccttggggg      600
ggaanccgtc tctcccttcc tgaannaact ttgaccgtng gaatagccgc gentcnent      660
acntnctggg cggggttcaa antccctecn ttgnennten cctcgggcca ttctggattt      720
nccnaacttt tctcttcccc cncccnccgg ngtttggntt tttcatnggg ccccaactct      780
gctnttggcc antccctggg gggcntntan cncccctnt ggtccentng ggcc      834

```

<210> 36

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 36

```

cggncgcttt cngccgcgc cccgtttcca tgacnaaggc tcccttcang ttaaatacnn      60
cctagnaaac attaatgggt tgctctacta atacatcata cnaaccagta agcctgcca      120
naacgccaac tcaggccatt cctaccaaag gaagaaaggc tgggtctctcc acccctgta      180
ggaaaggcct gccttgtaag acaccacaat nccgctgaat ctnaagtctt gtgttttact      240
aatggaaaaa aaaaataaac aanaggtttt gttctcatgg ctgccaccg cagcctggca      300
ctaaaacanc ccagcgtca cttctgcttg ganaaatatt ctttgcctt ttggacatca      360
ggcttgatgg tatcactgcc acntttccac ccagctgggc ncccttcccc catntttgtc      420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngcccacaag accggccacc      480
aggggangtc ntttncagtg gatctgcca anantaccn tatcatcnnt gaataaaaag      540
gccctgaac ganatgctt cancanctt taagacccat aatcctngaa ccatggtgcc      600
cttcgggtct gatccnaaag gaatgttctt ggggtccant cctcctttg ttnccttacgt      660
tgtnttggac cctgtctn gn atnaccaan tganatcccc ngaagcacc tnccttggc      720
atttganttt cntaaattct ctgcctacn nctgaaagca cnattccctn ggcnccnaan      780
ggngaactca agaaggtctn ngaaaaacca cncn      814

```

<210> 37

<211> 760

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(760)

<223> n = A,T,C or G

<400> 37

```

gcattgctgct cttcctcaaa gttgtttcttg ttgccataac aaccaccata ggtaaagcgg      60
gogcagtgtt cgctgaaggg gttgtagtac cagcgóggga tgctctcctt gcagagtctt      120
gtgtctggca ggtccacgca atgccccttg tcaactgggga aatggatgog ctggagctog      180
tcnaanccac tcgtgtattt ttcacangca gectcctcog aagentccgg gcagttgggg      240
gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt      300
gggctgacag gtgccagaac acaactggatn ggcctttcca tgggaagggcc tgggggaaat      360
cncctnancc caaactgcct ctcaaaggcc accttgcaca ccccgacagg ctagaaatgc      420
actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aacccaaaanc      480
ttgcaaaatc tgctccgtgg gggtcatnnn taccanggtt ggggaaanaa acccggcngn      540
gancncctt gtttgaatgc naaggnaata atcctcctgt cttgcttggg tgggaanagca      600
caattgaact gttaacnttg ggcgngttc cncnnggtg gtctgaaact aatcacgcgc      660
actggaaaaa ggtangtgcc ttccttgaat tcccaaantt cccctngntt tgggtntttt      720
ctcctctncc ctaaaaatcg tnttcccccc centanggcg      760

```

<210> 38

<211> 724

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 38

```

tttttttttt tttttttttt tttttttttt tttttaaaaa cccctccat tgaatgaaaa      60
cttcnnaaat tgtccaaccc cctcnccaa atnnccattt cggggggggg gttccaaacc      120
caaattaatt ttgganttta aattaaatnt tnattngggg aanaanccaa atgtnaagaa      180
aatttaaccc attatnaact taaatnccn gaaacccttg gnttccaaaa atttttaacc      240
cttaaatecc tcgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt      300
ngattttaaac ccccttnant tnttttnacc cngnctnaa ntatttngnt tccggtgttt      360
tctntntaan cntnggtaac tcccgntaat gaannccct aanccaatta aaccgaattt      420
tttttgaatt ggaaattccn ngggaattna cgggggtttt tccnttttg gggccatncc      480
ccncttttcg gggtttgggn ntaggttgaa tttttnnang ncccaaaaaa ncccccaana      540
aaaaaactcc caagnnttaa ttngaantnc ccccttccca ggccttttg gaaaggnggg      600
ttnttggggg ccngggantt cnttcccccn ttncncccc cccccnggt aaanggttat      660
ngnntttggt ttttgggccc cttnanggac ctccggatn gaaattaaat ccccggnccg      720
gccg      724

```

<210> 39

<211> 751

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

341

<400> 42

<400> 43

<400> 44

acataaatat	cagagaaaag	tagtctttga	aatattttacg	tccaggagtt	ctttgtttct	60
gattatttgg	tgtgtgtttt	ggtttgtgtc	caaagtattg	gcagcttcag	ttttcatttt	120
ctctccatcc	tcgggcattc	ttcccaaatt	tatataccag	tcttcgtcca	tccacacgct	180
ccagaatttc	tctttttag	taatatctca	tagctcggct	gagcttttca	taggtcatgc	240
tgctgttgtt	cttcttttta	ccccatagct	gagccactgc	ctctgatttc	aagaacctga	300
agacgccctc	agatcggctc	tcccatttta	ttaatcctgg	gttcttgtct	gggttcaaga	360
ggatgtcgcg	gatgaattcc	cataagttag	tccctctcgg	gttgtgcttt	ttgggtgtggc	420
acttggcagg	ggggtcttgc	tcctttttca	tatcagggtga	ctctgcaaca	ggaagggtgac	480
tggtggttgt	catggagatc	tgagcccggc	agaaagtttt	gctgtccaac	aaatctactg	540
tgctaccata	gttgggtgtca	tataaatagt	tctngtcttt	ccagggtgttc	atgatggaag	600
gctcagtttg	ttcagtcctg	acaatgacat	tgtgtgtgga	ctggaacagg	tcactactgc	660
actggccggt	ccacttcaga	tgctgcaagt	tgctgtagag	gagntgcccc	gccgtccctg	720
ccgcccggt	gaactcctgc	aaactcatgc	tgcaaagggtg	ctcgccgttg	atgtcgaaact	780
cntggaaagg	gatacaattg	gcatccagct	ggttgggtgtc	caggagggtga	tggagccact	840
cccacacctg	gt					852

<400> 45

<210> 46

<211> 590

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

$\langle 222 \rangle$ (1) ... (590)

<223> n = A, T, C or G

<400> 46

actttttatt	taaatgttta	taaggcagat	ctatgagaat	gatagaaaac	atggtgtgta	60
atttgatagc	aatatttttg	agattacaga	gttttagtaa	ttaccaatta	cacagttaaa	120
aagaagataa	tatattccaa	gcanatacaa	aatatcta	gaaagatcaa	ggcaggaaaa	180
tgantataac	taattgacaa	tggaaaatca	attttaatgt	gaattgcaca	ttatccttta	240
aaagctttca	aaanaaaaa	ttattgcagt	ctanttaatt	caaacagtgt	taaatgggat	300
caggataaan	aactgaaggg	canaaaagaat	taattttcac	ttcatgtaac	ncacccanat	360
ttacaatggc	ttaaatgcan	ggaaaaagca	gtggaagtag	ggaagtantc	aaggtctttc	420
tggctctctaa	tctgccttac	tctttgggtg	tggctttgat	cctctggaga	cagctgccag	480
ggctcctgtt	atatccacaa	tcccagcagc	aagatgaagg	gatgaaaaag	gacacatgct	540
gccttccttt	gaggagactt	catctcactg	gccaacactc	agtcacatgt		590

<210> 47

<211> 774

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (774)$

<223> n = A, T, C or G

<400> 47

acaagggggc	ataatgaagg	agtgggggana	gatttttaaag	aaggaaaaaa	aacgaggccc	60
tgaacagaat	tttcctgnac	aacggggcctt	caaaataatt	ttcttgggga	ggttcaagac	120
gcttcaactgc	ttgaaactta	aatggatgtg	ggacanaatt	ttctgtaatg	accctgaggg	180
cattacagac	gggactctgg	gaggaaggat	aaacagaaaag	gggacaaaag	ctaattcccaa	240
aacatcaaag	aaaggaagggt	ggcgtcatatc	ctcccagcct	acacagttct	ccagggctct	300
cctcatccct	ggaggacgac	agtggaggaa	caactgacca	tgtcccaggt	ctcctgtgtg	360
ctgqctcctg	gtcttcaqcc	cccagctctg	gaagcccacc	ctctgctgat	cctgcgtggc	420

```
<210> 48
<211> 124
<212> DNA
<213> Homo sapien
```

<400> 48

```
<210> 49
<211> 147
<212> DNA
<213> Homo sapien
```

<400> 49

```
<210> 50
<211> 107
<212> DNA
<213> Homo sapien
```

<400> 50

```
<210> 51
<211> 204
<212> DNA
<213> Homo sapien
```

<210>	54
<211>	151
<212>	DNA

<400> 54

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

<210> 56

<211> 133

<212> DNA

<213> Homo sapien

<400> 56

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

$\langle 222 \rangle$ (1) ... (147)

$\langle 223 \rangle$ n = A, T, C or G

<400> 57

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

<221> misc feature

<222> (1) ... (198)

$\langle 223 \rangle$ n = A, T, C or G

acagggatat	aggtttnaag	ttattgtinat	tgtaaaatac	attgaatttt	ctgtatactc	60
tgattacata	catttatcct	ttaaaaaaga	tgtaaatcct	aatttttatg	ccatctatta	120
atttaccaat	gagttacctt	gtaaatgaga	agtcatgata	gcactgaatt	ttactagtt	180
ttgacttcta	agtttggt					198

<210> 59

<211> 330

<212> DNA

<213> Homo sapien

acaacaaatg	ggttgtgagg	aagtcttata	agcaaaactg	gtgatggcta	ctgaaaagat	60
cattgaaaa	ttatcattaa	tgattttaaa	tgacaagtta	tcaaaaactc	actcaatttt	120
cacctgtgct	agcttgctaa	aatgggagtt	aactctagag	caaatatagt	atcttctgaa	180
tacagtcaat	aaatgacaaa	gccagggcct	acagggtggt	tccagacttt	ccagaccag	240
cagaaggaat	ctattttatc	acatggatct	ccgtctgtgc	tcaaaatacc	taatgatatt	300
tttcgtcttt	attggaacttc	tttgaagagt				330

<210> 60

<211> 175

<212> DNA

<213> Homo sapien

accgtgggtg	ccttctacat	tcttgacggc	tccttcacca	acatctgggt	ctacttcggc	60
gtcgtgggct	ccttcctctt	catcctcatt	cagctgggtc	tgctcatcga	ctttgcgcac	120
tcttgggaacc	agcgggtggct	gggcaaggcc	gaggagtgcg	attcccgctc	ctgggt	175

<210> 61

<211> 154

<212> DNA

<213> Homo sapien

```

accccaacttt  tctcctgtg  agcagtctgg  acttctcact  gctacatgat  gagggtagat      60
ggttgttgct  cttcaacagt  atcctcccc  ttccggatct  gctgagccgg  acagcagtgc     120
tggactgcac  agccccgggg  ctccacattg  ctgt                                     154

```

<210> 62

<211> 30

<212> DNA

<213> Homo sapien

cgctcgagcc ctatagtgag tcgtattaga 30

<210> 63

<211> 89

<212> DNA

<213> Homo sapien

[illegible]

<400> 63

<211> 97

<212> DNA

<213> Homo sapien

<400> 64

<211> 377

$\langle 212 \rangle$ DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (377)$

<223> n = A, T, C or G

<400> 65

<210> 66

<211> 305

<212> DNA

<213> Homo sapien

<400> 66

<210> 67

<211> 385

<212> DNA

<213> Homo sapien

[illegible]

<400> 67

actacacaca	ctccacttgc	ccttgtgaga	cactttgtcc	cagcacttta	ggaatgctga	60
ggtcggacca	gccacatctc	atgtgcaaga	ttgcccagca	gacatcaggt	ctgagagttc	120
cccttttaaa	aaaggggact	tgcttaaaaa	agaagtctag	ccacgattgt	gtagagcagc	180
tgtgctgtgc	tggagattca	cttttgagag	agttctcttc	tgagacctga	tctttagagg	240
ctgggcagtc	ttgcacatga	gatggggctg	gtctgatctc	agcactcctt	agtctgcttg	300
cctctcccag	ggccccagcc	tggccacacc	tgcttacagg	gcactctcag	atgcccatac	360
catagtttct	gtgctagtgg	accgt				385

<210> 68

<211> 73

<212> DNA

<213> Homo sapien

<400> 68

acttaaccag	atatatTTTT	accccagatg	gggatattct	ttgtaaaaaa	tgaaaataaa	60
gtttttttta	tgg					73

<210> 69

<211> 536

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(536)

<223> n = A,T,C or G

<400> 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccggttggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggg	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggaaccc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtcctt	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

<210> 70

<211> 477

<212> DNA

<213> Homo sapien

<400> 70

atgaccccta	acagggggccc	tctcagccct	cctaattgacc	tccggcctag	ccatgtgatt	60
tcaattccac	tccataacgc	tcttcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atattattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggcccc	aacaggcatc	accccgttaa	atcccctaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420

<400> 84

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gctggtagcc tatggcgtgg ccaeggagg gctcctgagg cacgggacag tgacttccca    60
agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag    120
gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggtctctgg    180
gcacaccctc ctggggccca ggggggcacc tgcgtctccc agtatgcaa ctggctggtg    240
gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgcgtggtcac ttgctcattg    300
ccatgttcag ttacacattc ggcaaagtag agggcaacag cnatctctac tgggaaggcc    360
agcgttncgg cctcatccgg                                     380

```

<210> 85

<211> 481

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(481)

<223> n = A,T,C or G

<400> 85

```

gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc    60
tnccatcgtc atactgtagg ttggccacca cctcctgcat cttggggcgg ctaatatcca    120
ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttcgctcgg    180
tgtgaaagga tctccagaag gagtgtctga tcttccccac acttttgatg actttattga    240
gtcgattctg catgtccagc aggaggttgt accagctctc tgacagttag gtcaccagcc    300
ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac    360
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa    420
aaagaacacc tcttgaagt gctngccgct cctcgtcctt tgggtggngc gentnccctt    480
t                                                                481

```

<210> 86

<211> 472

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(472)

<223> n = A,T,C or G

<400> 86

```

aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt    60
acttgaaaaa gcaacttnaa gcctggacac tggattataa attcacaata tgcaaacatt    120
taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg    180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga    240
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt    300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg    360
atatntgagc ggaagantag cttttctact tcaccagaca caactccttt catattggga    420
tgttnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg                472

```


<400> 104

tttttttttt	tttttttttt	tttttctctt	cttttttttt	gaaatgagga	tgcagttttt	60
cactctctag	atagggcatg	aagaaaactc	atctttccag	ctttaaaata	acaatcaa	120
ctcttatgct	atatcatatt	ttaagttaaa	ctaatagagc	actggcttat	cttctctga	180
aggaaatctg	ttcattcttc	tcattcatat	agttatatca	agtactacct	tgcataattga	240
gaggtttttc	ttctctat	acacatatat	ttccatgtga	atttgtatca	aacctttatt	300
ttcatgcaaa	ctagaaaata	atgtttcttt	tgcataagag	aagagaacaa	tatagcatta	360
caaaactgct	caaattgttt	gttaagttaa	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaataac	caaaataatt	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
tgaattcaca	tggtattatt	cctagcccaa	cacaatgg			578

<210> 105

<211> 538

<212> DNA

<213> Homo sapien

<400> 105

tttttttttt	tttttcagta	ataatcagaa	caatatttat	ttttatattt	aaaattcata	60
gaaaagtgcc	ttacatttaa	taaaagtttg	tttctcaaag	tgatcagagg	aattagatat	120
gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
aagatcatag	agcttgtaag	tgaaaagata	aaatttgacc	tcagaaactc	tgagcattaa	240
aaatccacta	ttagcaaata	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
ggggtgtcac	tggtaaacca	acacattctg	aaggatacat	tacttagtga	tagattctta	360
tgtactttgc	taatacgtgg	atatgagttg	acaagtttct	ctttcttcaa	tcttttaagg	420
ggcgagaaat	gaggaagaaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
agatatgttt	cctttgccaa	tattaaaaaa	ataataatgt	ttactactag	tgaaaccc	538

<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

tttttttttt	tttttttagtc	aagtttctat	ttttattata	attaaagtct	tggtcatttc	60
atttattagc	tctgcaactt	acatatttaa	attaaagaaa	cgtttttagac	aactgtacaa	120
tttataaatg	taaggtgcca	ttattgagta	atatattcct	ccaagagtgg	atgtgtccct	180
tctcccacca	actaatgaac	agcaacatta	gtttaatttt	attagtagat	atacactgct	240
gcaaacgcta	attctcttct	ccatccccat	gtgatattgt	gtatatgtgt	gagttggtag	300
aatgcatcac	aatctacaat	caacagcaag	atgaagctag	gctgggcttt	cggtgaaaat	360
agactgtgtc	tgtctgaatc	aaatgatctg	acctatctc	ggtggcaaga	actcttcgaa	420
ccgcttctc	aaaggcgctg	ccacatttgt	ggctctttgc	acttgtttca	aaa	473

<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

cgccatggca	ctgcagggca	tctcggtcat	ggagctgtcc	ggcctggccc	cgggcccggt	60
ctgtgctatg	gtcctggctg	acttcggggc	gcgtgtggta	cgctgggacc	ggcccggtc	120

Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
 145 150 155 160
 Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
 165 170 175
 Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
 180 185 190
 Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
 195 200 205
 Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
 210 215 220
 Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe
 225 230 235 240
 Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro
 245 250 255
 Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala
 260 265 270
 Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp
 275 280 285
 Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val
 290 295 300
 His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu
 305 310 315 320
 Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala
 325 330 335
 Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu
 340 345 350
 Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn
 355 360 365
 Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu
 370 375 380

<210> 109

<211> 1524

<212> DNA

<213> Homo sapien

<400> 109

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ggcaccgaggc tgcgccaggg cctgagcgga ggcggggggca gcctcgccag cggggggcccc 60
gggcctggcc atgcctcact gagccagcgc ctgcgcctct acctcgccga cagctggaac 120
cagtgcgacc tagtggtctt cacctgcttc ctccctggcg tgggctgccc gctgaccccg 180
ggtttgtagc acctgggccc cactgtcttc tgcctcgact tcatggtttt cacggtgccc 240
ctgcttcaca tcttcacggg caacaaacag ctggggccca agatcgatcat cgtgagcaag 300
atgatgaagg acgtgttctt cttcctcttc ttccctggcg tgtggctggg agcctatggc 360
gtggccacgg aggggctcct gaggccacgg gacagtgcct tcccaagtat cctgcgccgc 420
gtcttctacc gtccctacct gcagatcttc gggcagattc cccaggagga catggacgtg 480
gccctcatgg agcacagcaa ctgctcgtcg gagcccggtc tctgggcaca cctcctggg 540
gcccgaggcg gcacctgcgt ctcccagtat gccaaactggc tgggtggtgct gctcctcgtc 600
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acattcgcca aagtacaggg caacagcgat ctctactgga aggcgcagcg ttaccgctc 720
atccgggaat tccactctcg gcccgcgctg gcccgcctt ttatcgatcat ctcccacttg 780
cgctcctctg tcaggcaatt gtgcaggcga ccccgagacc cccagccgtc ctccccggcc 840

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cgacttgccc aaatactcag cgtagaaaac ttccagcaca ttggggtgga gggcctgcct 1980
cactgggtcc cagctccccg ctctgttag ccccatgggg ctgcgagggt ggccgccagt 2040
ttctgttgct gccaaagtaa tgtggctctc tgetgccacc ctgtgctgct gaggtgcgta 2100
gctgcacagc tgggggctgg ggcgtccctc tctctctcc ccagtctcta gggctgcctg 2160
actggaggcc ttccaagggg gtttcagtct ggacttatac agggaggcca gaagggtcc 2220
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gtttcccatc tctaagcccc ttaacctgca gcttcgttta atgtagctct tgcattggag 2400
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gtcctgaggg gcaacacaca agaaccagggt cccctcagcc cacagcactg tctttttgct 2520
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tccaaatgct gttacccaag gttagggtgt tgaaggagg tagagggtgg ggcttcagggt 2880
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gaggtcttat ctctcagggg gggtttaagt gccgtttgca ataatgtcgt cttattttatt 3240
tagcgggggtg aatattttat actgtaagtg agcaatcaga gtataatgtt tatggtgaca 3300
aaattaaagg ctttcttata tgtttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa 3410

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<210> 111

<211> 1289

<212> DNA

<213> Homo sapien

<400> 111

```

agccaggcgt cctctgcct gccactcag tggcaacacc cgggagctgt tttgtccttt 60
gtggagcctc agcagttccc tctttcagaa ctactgcca agagccctga acaggagcca 120
ccatgcagtg cttcagcttc attaaagacca tgatgatcct cttcaatttg ctcatctttc 180
tgtgtggtgc agccctgttg gcagtgggca tctgggtgtc aatcgatggg gcactccttc 240
tgaagatctt cgggccactg tcgtccagtg ccatgcagtt tgtcaacgtg ggctacttcc 300
tcatgcagc cggcgttgtg gtctttgtct ttggtttcct gggctgctat ggtgctaaga 360
ctgagagcaa gtgtgccctc gtgacgttct tcttcactct cctcctcctc ttcattgctg 420
aggttgacgc tgetgtggtc gccttgggtgt acaccacaat ggctgagcac ttcctgacgt 480
tgctggtagt gcctgccatc aagaaagatt atggttccca ggaagacttc actcaagtgt 540
ggaacaccac catgaaaggg ctcaagtgtc gtggcttcac caactatacg gattttgagg 600
actcacccta cttcaaagag aacagtgcct tccccccatt ctgttgcaat gacaacgtca 660
ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgacaaaaaa gtagagggtt 720
gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
ctggaattgg gggcctcgag ctggctgcca tgattgtgtc catgtatctg tactgcaatc 840
tacaataagt ccacttctgc ctctgccact actgctgcca catgggaact gtgaagaggc 900
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atgcctgact ttccttccat tgggtgggtg atgggtgggg ggcattccag agcctctaag 1080
gtagccagtt ctgttgccca ttccccagct ctattaaacc cttgatatgc cccctaggcc 1140

```


acctttcccc aaggccaatg tctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggg ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgetcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catggtgggg gtcttgcacg tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccct agtgctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccagggatca ccaaatttt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120
 ttctctctga agtctagggt acccattttg gggaccatt ataggcaata aacacagttc 180
 ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcccttt tcttagcctt 240
 ttctgcaaa aggtcactc agtcccttgc ttgtcagtg gactgggctc cccagggcct 300
 aggtgcctt cttttccatg tcc 323

<210> 129
 <211> 192

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(192)
 <223> n = A,T,C or G

<400> 129
 acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatatc 60
 tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcattc 120
 tagcacattc atctgtgata naaagatagg tgagtttcat ttcttccacg ttggccaatg 180
 gataaacaaa gt 192

<210> 130
 <211> 362
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(362)
 <223> n = A,T,C or G

<400> 130
 ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca 60
 tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa 120
 gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa 180
 ttctgtattc ctttttgta acgcctggta gatgtaacct gctangaggc taactttata 240
 cttatttaaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat 300
 tgcagcagga agcacgtgtg gggtgggtgt aaagctcttt gctaatttta aaaagtaatg 360
 gg 362

<210> 131
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 131
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca 60
 gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120
 gttctccag gttgcctcg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180
 ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttgggtttatt atccaactaa 240
 cttccatctg ttatcactgg agaaagccca gactccccan gacnggtacg gattgtgggc 300
 atanaaggat tgggtgaagc tggcgttgtg gt 332

```
<220>  
<221> misc_feature  
<222> (1)...(322)  
<223> n = A,T,C or G
```

```
<210> 133
<211> 278
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G
```

```
<210> 134
<211> 121
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G
```

<210> 135

```
<220>
<221> misc_feature
<222> (1)...(350)
<223> n = A,T,C or G
```

```
<210> 136
<211> 399
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G
```

```
<210> 137
<211> 165
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(165)
<223> n = A,T,C or G
```

<400> 137

actggtgtgg	tnggggggtga	tgctggtggt	anaagttgan	gtgacttcn	gatggtgtgt	60
ggaggaagtg	tgtgaacgta	gggatgtaga	ngttttggcc	gtgctaaatg	agcttcggga	120
ttggctggtc	ccactggtgg	tcactgtcat	tggtaggggtt	cctgt		165

<210> 138
 <211> 338
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(338)
 <223> n = A,T,C or G

<400> 138
 actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60
 ttaactttct cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccac 120
 tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg 180
 tcatgtgttt ccagccacac caaaagggtgc ttgggggtgga gggctggggg catananggt 240
 cangcctcag gaagcctcaa gttccattca gttttgccac tgtacattcc ccatntttaa 300
 aaaaactgat gccttttttt ttttttttg taaaattc 338

<210> 139
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 139
 gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60
 gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccga gtgaaggaga 120
 attcaaacag acctcgatcat tcttggtgtg agcctggctg gctcaccgcc tatcatctgc 180
 atttgctta ctcaggtgct accggactct ggccctgat gtctgtagtt tcacaggatg 240
 ccttatttgt cttctacacc ccacagggcc ccttacttct tcggatgtgt ttttaataat 300
 gtcagctatg tgcccacatc tcttcatgc cctccctccc tttctacca ctgctgagtg 360
 gcctggaact tgtttaaggt gt 382

<210> 140
 <211> 200
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 140
 accaaanctt ctttctgttg tgttngattt tactataggg gtttngcttn ttctaaanat 60
 acttttcatt taacancttt tgttaagtgt caggctgcac ttgctccat anaattattg 120
 ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttggtgaaat cacatatttt 180
 atattcagca taaaggagaa 200

<210> 141
 <211> 335
 <212> DNA

<223> n = A, T, C or G.

actttatttt	caaaaacactc	atatgttgca	aaaaacacat	agaaaaataa	agtttggtgg	60
gggtgctgac	taaacttcaa	gtcacagact	tttatgtgac	agattggagc	agggtttggt	120
atgcatgtag	agaacccaaa	ctaatttatt	aaacaggata	gaaacaggct	gtctgggtga	180
aatggttctg	agaaccatcc	aattcacctg	tcagatgctg	atanactagc	tcttcagatg	240
tttttctacc	agttcagaga	tnggttaatg	actanttcca	atggggaaaa	agcaagatgg	300
attcacaaaac	caaqtaattt	taaacaaaqa	cactt			335

<223> n = A, T, C or G

accagggttaa	tattgccaca	tatatccttt	ccaattgcgg	gctaaacaga	cgtgtattta	60
gggttgttta	aagacaacc	agcttaatat	caagagaaat	tgtgacctt	catggagtat	120
ctgatggaga	aaacactgag	ttttgacaaa	tcttatttta	ttcagatagc	agtctgatca	180
cacatgggtcc	aacaacactc	aaataataaaa	tcaaataatna	tcagatgtta	aagattgggtc	240
ttcaaacatc	atagccaatg	atgccccgct	tgcctataat	ctctccgaca	taaaaccaca	300
tcaaacacctc	agtggccacc	aaaccattca	gcacagcttc	cttaactgtg	agctgtttga	360
agctaccaggt	ctgagcacta	ttgactatnt	ttttcangct	ctgaatagct	ctagggatct	420
cagcanggggt	gggaggaacc	agctcaacct	tggcgctant			459

<213> Homo sapien

```
acatttctctt ccaccaagtc aggactcctg gcttctgtgg ,gagttcttat cacctgaggg      60
aaatccaaac agtctctcct agaaaggaat agtgtcacca accccaccca tctccctgag      120
accatccqac ttccctgtgt                                     140
```

 $\langle 220 \rangle$

[illegible]

acattgtttt	tttgagataa	agcattgana	gagctctcct	taacgtgaca	caatggaagg	60
actggaacac	ataccacat	ctttgttctg	agggataatt	ttctgataaa	gtcttgctgt	120
atattcaagc	acatatgtta	tatattattc	agttccatgt	ttatagccta	gtt	173

```
<220>
<221> misc_feature
<222> (1) ... (477)
<223> n = A,T,C or G
```

acaaccactt	tatctcatcg	aatttttaac	ccaaactcac	tcactgtgcc	tttctatcct	60
atgggatata	ttatttgatg	ctccatttca	tcacacatat	atgaataata	cactcatact	120
gccctactac	ctgctgcaat	aatcacattc	ccttctgtgc	ctgacctga	agccattggg	180
gtggtcctag	tggccatcag	tccangcctg	caccttgagc	ccttgagctc	cattgctcac	240
nccancccac	ctcaccgacc	ccatcctctt	acacagctac	ctccttgctc	tctaacccca	300
tagattatnt	ccaaattcag	tcaattaagt	tactattaac	actctaccgg	acatgtccag	360
caccactggg	aagccttctc	cagccaacac	acacacacac	acacncaçac	acacacatat	420
ccaggcacag	gctacctcat	cttcacaate	acccctttaa	ttaccatgct	atgggtgg	477

```
<210> 149
<211> 207
<212> DNA
<213> Homo sapien
```

acagttgtat	tataatatca	agaaataaac	ttgcaatgag	agcattttaag	agggaagaac	60
taacgtat	tagagagcca	aggaaggttt	ctgtgggggag	tgggatgtaa	ggtggggcct	120
gatgataaat	aagagtcagc	caggtaagt	ggtgggtgtgg	tatgggcaca	gtgaagaaca	180
tttcaggcag	agggaacagc	agtga				207

```
<210> 150
<211> 111
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(111)  
<223> n = A,T,C or G
```

<400> 150

accttgattt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
 cacttaaagt tggtcagtgt ttggacttgt taactantgg catctttggg t 111

<210> 151
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 151
 agcgcgccag gtcattatga acattccaga tacctatcat tactcgatgc tgttgataac 60
 agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat 120
 ggataccaac cggaacaccc ctatcccgcg cagcccactg tggccccac tgtctacgag 180
 gtgcatccgg ctccagt 196

<210> 152
 <211> 132
 <212> DNA
 <213> Homo sapien

<400> 152
 acagcacttt cacatgtaag aaggagagaaa ttctaaatg taggagaaag ataacagAAC 60
 ctcccccttt tcatctagtg gtggaaacct gatgctttat gttgacagga atagaaccag 120
 gagggagttt gt 132

<210> 153
 <211> 285
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (285)
 <223> n = A,T,C or G

<400> 153
 acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag 60
 cttctgctct tatgtectca tctgacaact ctttaccatt tttatcctcg ctccagcagga 120
 gcacatcaat aaagtccaaa gtcttggaact tggccttggc ttggaggaag tcatcaacac 180
 cctggctagt gaggggtgagg cgccgctcct ggatgacggc atctgtgaag tctgtcacca 240
 gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154
 <211> 333
 <212> DNA
 <213> Homo sapien

<400> 154
 accacagtcc tgttgggcca gggcttcatt accctttctg tgaaaagcca tattatcacc 60
 accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120
 cctaagccgg ttacacagct aactcccact ggccttgatt tgtgaaattg ctgctgctg 180
 attggcacag gagtcgaagg tgttcagctc cctcctccg tggaacgaga ctctgattg 240

<223> n = A,T,C or G

<400> 158

acccactggt	cttggaacaa	ccatcctta	atacgatgat	ttttctgtcg	tgtgaaaatg	60
aanccagcag	gctgcccta	gtcagtcctt	ccttcagag	aaaaagagat	ttgagaaagt	120
gocctgggtaa	ttcaccatta	atttctctcc	ccaaactctc	tgagtcttcc	cttaatat	180
ctgggtggttc	tgaccaaagc	aggatcatggt	ttgttgagca	tttgggatcc	cagtgaagta	240
natgtttgta	gccttgcata	cttagccctt	cccacgcaca	aacggagtgg	cagagtgggtg	300
ccaaccctgt	tttccagtc	cacgtagaca	gattcacagt	gcggaattct	ggaagctgga	360
nacagacggg	ctctttgcag	agccgggact	ctgagangga	catgagggcc	tctgcctctg	420
tggttcattct	ctgatgtcct	gt				442

<210> 159

<211> 498

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (498)

<223> n = A,T,C or G

<400> 159

acttcaggt	aacgttggtg	tttccgttga	gcctgaactg	atgggtgacg	ttgtagggttc	60
tccaacaaga	actgaggttg	cagagcgggt	agggagagag	gctgttccag	ttgcacctgg	120
gctgctgtgg	actgttggtg	attctcact	acggccaag	gttggtggaac	tggcanaaag	180
gtgtgtgtgt	gganttgagc	tcgggaggct	gtggtagggt	gtgggctctt	caacaggggc	240
tgctgtgggtg	ccgggagtg	aangtggtgt	gtcacttgag	cttggccagc	tctggaaagt	300
antanattct	tcctgaaggc	cagcgcttgt	ggagctggca	ngggtcantg	ttgtgtgtaa	360
cgaaccagtg	ctgctgtggg	tgggtgtana	tcctccacaa	agcctgaagt	tatgggtgcn	420
tcaggaana	atgtggtttc	agtgtccctg	ggcngctgtg	gaaggttgta	nattgtcacc	480
aagggaataa	gctgtggt					498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (380)

<223> n = A,T,C or G

<400> 160

acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgcct	120
ggagcatggc	atagaggaag	ctganaaatg	tggggtctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgtgtga	agagatgcc	catgacccca	gatgcctctc	240
ccacccttac	ctccatctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctgtt	cacaacggta	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<210> 161
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 161
 actccacatc ccctctgagc aggcggttgt cgttcaaggt gtatttggcc ttgcctgtca 60
 cactgtccac tggcccctta tccacttggg gcttaatccc tcgaaagagc atgt 114

<210> 162
 <211> 177
 <212> DNA
 <213> Homo sapien

<400> 162
 actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa 60
 gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt 120
 tgggtgatata taacttggca ataaccagc ctggtgatac ataaaactac tcaactgt 177

<210> 163
 <211> 137
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n = A,T,C or G

<400> 163
 catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagc 60
 canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
 catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 cttatcacia tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctatct catacctaag gagggagttc caggagattc aaccaggaaa 120
 tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgtctacg aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
 gggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300


```
<210> 168
<211> 273
<212> DNA
<213> Homo sapien
```

<400> 168

```
<210> 169
<211> 431
<212> DNA
<213> Homo sapien
```

<400> 169

```
<210> 170
<211> 266
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(266)  
<223> n = A,T,C or G
```

<400> 170

acctgtgggc	tgggctgtta	tgcctgtgcc	ggctgtctgaa	agggagttca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtc	tgggaggggg	agttggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1248)

<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcaact	cgcagccctg	gcaggcggca	60
ctgggtcatgg	aaaacgaatt	gttctgctcg	ggcgctcctgg	tgcatecgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcacccag	agtacaacag	acccttgctc	gctaacgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcgggggaact	cttgccctcg	ttctggctgg	ggctgtctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggaggggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcggtg	ccagggtgtct	acaccaacct	ctgcaaattc	660
actgagtggg	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720
attgaccccc	aaatacatcc	tgcggaagga	attcaggaat	atctgttccc	agccccctct	780
ccctcaggcc	caggagtcca	ggccccccagc	ccctcctccc	tcaaaccaag	ggtacagatc	840
cccagccctt	cctccctcag	acccaggagt	ccagaccccc	cagccctccc	tccctcagac	900
ccaggagtcc	agccccctct	ccctcagacc	caggagtcca	gacccccccag	ccctcctccc	960
ctcagaccca	gggggtccagg	cccccaaccc	ctcctccctc	agactcagag	gtccaagccc	1020
ccaacccntc	attccccaga	cccagaggtc	caggteccag	ccctcntccc	ctcagaccca	1080
gcgggtccaat	gccacctaga	ctntccctgt	acacagtgcc	cccttggtggc	acgttgaccc	1140
aaccttacca	gttggttttt	catttttngt	ccctttcccc	tagatccaga	aataaagttt	1200
aagagaagng	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaa		1248

<210> 172

<211> 159

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(159)

<223> Xaa = Any Amino Acid

<400> 172
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1 5 10 15
 Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20 25 30
 Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35 40 45
 Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50 55 60
 Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
 65 70 75 80
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
 85 90 95
 Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
 100 105 110
 Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
 115 120 125
 Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
 130 135 140
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 145 150 155

<210> 173
 <211> 1265
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1265)
 <223> n = A,T,C or G

<400> 173
 ggcagcccgcc actcgccagcc ctggcaggcg gcaactgggtca tggaaaacga attgtttctgc 60
 tcgggcgctcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc 120
 tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg 180
 gtggaggcca gcctctccgt acggcaccca gactacaaca gaccttgct cgctaacgac 240
 ctcatgctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc 300
 attgcttcgc agtgccctac cgcggggaac tcttgccctg tttctggctg ggggtctgctg 360
 gcgaacgggtg agctcacggg tgtgtgtctg ccctcttcaa ggaggtctct tgcctcagtcg 420
 cgggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga 480
 acgtgtcggt ggtgtctgag gaggtctgca gtaagctcta tgaccctgctg taccacccca 540
 gcatgtttctg cgcggcgga gggcaagacc agaaggactc ctgcaacggg gactctgggg 600
 ggccctgat ctgcaacggg tacttgccagg gccttggtg tttcggaata gcccctgtg 660
 gccaaattgg cgtgccaggt gtctacacca acctctgcaa attcactgag tggatagaga 720
 aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac 780
 atctgcgga aggaattcag gaatatctgt tcccagcccc tctcctca ggcccaggag 840
 tccaggcccc cagccctcc tccctcaaac caagggtaca gatccccagc cctcctccc 900
 tcagaccag gagtcagac cccccagccc ctctcctc agaccagga gtccagcccc 960
 tctcctca gaccaggag tccagacccc ccagccctc ctccctcaga cccaggggtt 1020
 gagggcccca accctcctc cttcagagtc agagggtcaa gcccacaacc cctcgttccc 1080


```

cagacccaga ggttnnaggtc ccagcccctc ttcctcaga cccagnggtc caatgccacc 1140
tagattttcc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggt 1200
ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga ngngcaaaaa 1260
aaaaa 1265

```

```

<210> 174
<211> 1459
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1459)
<223> n = A,T,C or G

```

```

<400> 174
ggtcagccgc acactgtttc cagaagtgag tgcagagctc ctacaccatc gggctggggcc 60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg 120
tacggcacc cagagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttgg 180
acgaatccgt gtccgagtct gacaccatcc ggagcatcag cattgcttcg cagtgcctta 240
ccgcggggaa ctcttgctc gtttctggct ggggtctgct ggcgaacggg gagctcacgg 300
gtgtgtgtct gccctcttca aggaggtcct ctgccagtc gcgggggctg acccagagct 360
ctgcgtccca ggcagaatgc ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga 420
ngaggtctgc antaagctct atgaccctgt gtaccacccc ancatgttct gcgcgggagg 480
agggcaagac cagaaggact cctgcaacgt gagagagggg aaaggggagg gcaggcgact 540
caggggaagg tggagaaggg ggagacagag acacacaggg ccgcatggcg agatgcagag 600
atggagagac acacagggag acagtgacaa ctagagagag aaactgagag aaacagagaa 660
ataaacacag gaataaagag aagcaaagga agagagaaac agaaacagac atggggaggc 720
agaaacacac acacatagaa atgcagttga ccttccaaca gcatggggcc tgagggcggt 780
gacctccacc caatagaaaa tctctttata acttttgact ccccaaaaac ctgactagaa 840
atagcctact gttgacgggg agccttacca ataacataaa tagtcgattt atgcatacgt 900
tttatgcatt catgatatac ctttgttgga attttttgat atttctaagc tacacagttc 960
gtctgtgaat ttttttaaat tgttgcaact ctctaaaat ttttctgatg tgtttattga 1020
aaaaatccaa gtataagtgg acttgatgcat tcaaaccagg gttgttcaag ggtcaactgt 1080
gtaccagag ggaacagtg acacagattc atagaggtga aacacgaaga gaaacaggaa 1140
aaatcaagac tctacaaaga ggctgggcag ggtggctcat gcctgtaatc ccagcacttt 1200
gggaggcgag gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg 1260
gtgaaatcct gtctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt 1320
aatccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

<400> 175

```

ggcagccct ggcaggcggc actggtcatg gaaaacgaat tggtctgctc gggcgctctg      60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg      120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc      180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc      240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag      300
tgccctaccg cggggaactc ttgctcgtn tctggctggg gtctgctggc gaacggcaga      360
atgctaccg tgctgcactg cgtgaacgtg tgggtggtgt ctgaggangt ctgcagtaag      420
ctctatgacc cgctgtacca cccagcatg ttctgcgcg gcggagggca agaccagaag      480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt      540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc      600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttactctg gggactggga      660
acccatgaaa ttgacccccca aatacatcct gcggaangaa ttcaggaata tctgttccca      720
gccccctctc cctcaggccc aggagtccag gccccagcc cctcctcctt caaaccaagg      780
gtacagatcc ccagccccctc ctccctcaga cccaggagtc cagaccccc agccccctnt      840
ccntcagacc caggagtcca gccccctctc cntcagacgc aggagtccag accccccagc      900
ccntctccg tcagaccagc ggggtgcaggc ccccaacccc tcntcctca gagtccagg      960
tccaagcccc caacccctcg tccccagac ccagaggtnc aggtcccagc cctcctccc      1020
tcagaccagc cgggtccaatg ccacctagan tntcctgta cacagtgcc ccttggtggca      1080
ngttgaccca accttaccag ttgggttttc atttttgtc cctttccctt agatccagaa      1140
ataaagtnta agagaagcgc aaaaaaa      1167

```

<210> 176

<211> 205

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(205)

<223> Xaa = Any Amino Acid

<400> 176

```

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1          5          10          15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20          25          30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35          40          45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
 50          55          60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65          70          75          80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85          90          95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
100          105          110
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
115          120          125
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala

```

130		135		140
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly				
145		150		155
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys				160
		165		170
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys				175
		180		185
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser				190
		195		200
				205

<210> 177
 <211> 1119
 <212> DNA
 <213> Homo sapien

<400> 177

gogcactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc	60
gtcctggtgc atccgcagtg ggtgctgtca gccgcacact gtttcagaa ctctacacc	120
atcgggctgg gctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag	180
gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg	240
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct	300
tgcagtgcc ctaccgcggg gaactcttgc ctctttctg gctggggtct gctggcgaac	360
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc	420
caaccctggc aggggtgtac catttcggca acttcagtg caaggacgtc ctgctgcac	480
ctcactgggt gctcactact gctcactgca tcaccggaa cactgtgatc aactagccag	540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt	600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gctcaacca tcttggtatc	660
cagttatcct cactgaattg agatttctg cttcagtgtc agccattccc acataatttc	720
tgacctacag aggtgaggga tcatatagct ctccaaggat gctggtactc cctcacaaa	780
ttcatttctc ctgttgtagt gaaaggtgcg cctctggag cctcccaggg tgggtgtgca	840
ggtcacaatg atgaatgtat gatcgtgttc ccattacca aagccttta atccctcatg	900
ctcagtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cattcatgca	960
accacctcag gactcctgga ttctctgct agttgagctc ctgcatgctg cctccttggg	1020
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc	1080
ttaataaaca gaagctgtga tgttaaaaaa aaaaaaaa	1119

<210> 178
 <211> 164
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1) ... (164)
 <223> Xaa = Any Amino Acid

<400> 178

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1 5 10 15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
20 25 30

<400> 181

tccytttgkt	nagggtttkkg	agacamccck	agacctwaan	ctgtgtcaca	gacttcyngg	60
aatgttttagg	cagtgc tagt	aatttcytcg	taatgattct	gttattactt	tcctnattct	120
ttattcctct	ttcttctgaa	gattaatgaa	gttgaaaatt	gaggtggata	aatacaaaaa	180
ggtagtgtga	tagtataagt	atctaagtgc	agatgaaagt	gtgttatata	tatccattca	240
aaattatgca	agttagtaat	tactcaggg	taactaaatt	actttaatat	gctgttgaa	300
ctactctgtt	ccttggttag	aaaaaattat	aaacaggact	ttgttagttt	gggaagccaa	360
attgataata	ttctatgttc	taaaagttgg	gctatacata	aattattaag	aaatatggaw	420
ttttattccc	aggaatatgg	kgttcatttt	atgaatatta	cscrggatag	awgtwtgagt	480
aaaaycagtt	ttggtwaata	ygtwaatatg	tcmtaaataa	acaakgcttt	gacttatttc	540
caaaaaaaaa	aaaaaaaa					558

<210> 182

<211> 479

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (479)

<223> n = A,T,C or G

<400> 182

acagggwttk	grggatgcta	agseccercga	rwtygtttga	tccaaccctg	gcttwttttc	60
agaggggaaa	atggggccta	gaagttacag	mecatytagy	tggtgcgmtg	gcacccctgg	120
cstcacacag	astcccgagt	agctgggact	acaggcacac	agtcactgaa	gcaggccctg	180
ttwgcaattc	acgttgccac	ctccaactta	aacattcttc	atatgtgatg	tccttagtca	240
ctaaggttaa	actttcccac	ccagaaaagg	caacttagat	aaaatcttag	agtactttca	300
tactmttcta	agtcctcttc	cagcctcact	kkgagtcctm	cytggggggt	gataggaant	360
ntctcttggc	tttctcaata	aartctctat	ycatctcatg	tttaatttgg	tacgcatara	420
awtgstgara	aaattaataa	gttctgggty	maactttaaa	araaaaaaaa	aaaaaaaaaa	479

<210> 183

<211> 384

<212> DNA

<213> Homo sapien

<400> 183

aggcgggagc	agaagctaaa	gccaaagccc	aagaagagtg	gcagtgccag	cactgggtgcc	60
agtaccagta	ccaataacag	tgccagtgcc	agtgccagca	ccagtgggtg	cttcagtgtc	120
ggtgccagcc	tgaccgccac	tctcacattt	gggtctctcg	ctggccttgg	tggagctgg	180
gccagcacca	gtggcagctc	tggtgcctgt	ggtttctcct	acaagtgaga	ttttagatat	240
tgtaaatcct	gccagtcttt	ctcttcaagc	caggggtgat	cctcagaaac	ctactcaaca	300
cagcactcta	ggcagccact	atcaatcaat	tgaagttgac	actctgcatt	aratctattt	360
gccatttcaa	aaaaaaaaaa	aaaa				384

<210> 184

<211> 496

<212> DNA

<213> Homo sapien

<223> n = A, T, C or G

tttttttttt	tttgcgath	ctactatttt	attgcaggan	gtgggggtgt	atgcaccgca	60
caccggggct	atnagaagca	agaaggaagg	agggagggca	cagccccttg	ctgagcaaca	120
aagccgcctg	ctgccttctc	tgtctgtctc	ctggtgcagg	cacatgggga	gaccttcccc	180
aaggcagggg	ccaccagtcc	aggggtggga	atacaggggg	tgggangtgt	gcataagaag	240
tgataggcac	aggccacccg	gtacagaccc	ctcggctcct	gacaggtnga	tttcgaccag	300
gtcattgtgc	cctgcccagg	cacagcgtan	atctggaaaa	gacagaatgc	tttccttttc	360
aaatttggtc	ngtcatngaa	ngggcanttt	tccaanttng	gctnggtctt	ggtacncttg	420
gttcggccca	gtccncgtc	caaaaantat	tcaccennct	ccnaattgct	tgcnggnccc	480
cc						482

<213> Homo sapien

<223> n = A, T, C or G

tttttttttt	ttttaaaaca	gtttttcaca	acaaaattta	ttagaagaat	agtggttttg	60
aaaactctcg	catccagtga	gaactaccat	acaccacatt	acagctngga	atgtntctcca	120
aatgtctggg	caaatgatac	aatggaacca	ttcaatctta	cacatgcacg	aaagaacaag	180
cgcttttgac	atacaatgca	caaaaaaaaa	aggggggggg	gaccacatgg	attaaaattt	240
taagtactca	tcacatacat	taagacacag	ttctagtcca	gtcnaaaatc	agaactgcnt	300
tgaaaaattt	catgtatgca	atccaaccaa	agaacttnat	tggtgatcat	gantntctcta	360
ctacatcnac	cttgatcatt	gccaggaacn	aaaagttnaa	ancacncngt	acaaaaanaa	420
tctgtaattn	anttcaacct	ccgtacnqaa	aaatnttnnt	tatacactcc	c	471

<213> Homo sapien

<223> n = A, T, C or G

gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct 60
gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa 120

<400> 196

```

ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120
wagctgtttk gagttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga 180
actwatttat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkac 240
aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt 300
attaatcggc aaaatgtgga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact 360
tcacttgggt attttattgt aaatgartta caaaattctt aatttaagar aatgggtatgt 420
watatttatt tcattaattt ctttctkgt ttacgtwaat tttgaaaaga wtgcatgatt 480
tcttgacaga aatcgatctt gatgctgtgg aagtagtttg acccacatcc ctatgagttt 540
ttcttagaat gtataaaggt tgtagcccat cnaacttcaa agaaaaaat gaccacatac 600
tttgcaatca ggctgaaatg tggcatgctn ttctaattcc aactttataa actagcaaan 660
aagtg

```

<210> 197

<211> 492

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (492)

<223> n = A,T,C or G

<400> 197

```

tttntttttt ttttttttgc aggaaggatt ccatttattg tggatgcatt ttcacaatat 60
atgtttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120
aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgtana gatnacagag 180
aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240
caaaattcta ccctgaaact tactccatcc aaatattgga ataanagtca gcagtgatac 300
attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360
tgttcaaaag tacaacnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420
catttcactc ccatcacggg agtcaatgct acctgggaca cttgtatttt gttcatnctg 480
ancntggctt aa
492

```

<210> 198

<211> 478

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (478)

<223> n = A,T,C or G

<400> 198

```

tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60
tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120
tgagtatatt ttgaaaagga caagttttaa gtanacncat attgccganc atancacatt 180
tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaanaaat 240
natatatgtc aatcngatth aagatacaaa acagatccta tggtagatan catcntgtag 300

```


tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaaatc	tgcttaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaaattc	240
atttttcttg	tctttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggcctt	ttttcctaaa	360
agggaaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tatttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaaag	aaggcttaga	tccttttatg	480
tccatttttag	tcactaaacg	atatchaaaag	tgccagaatg	caaaaagggtt	gtgaacattt	540

attcaaaagc taatataaga tatttcacat actcatcttt ctg

583

<210> 204
 <211> 589
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1) ... (589)
 <223> n = A,T,C or G

<400> 204
 tttttttnt ttttttttt ttttttntct ttcttttttt ttganaatga ggatcgagtt 60
 tttcactctc tagatagggc atgaagaaaa ctcatctttc cagctttaaa ataacaatca 120
 aatctcttat gctatatcat attttaagtt aaactaatga gtcactggct tatcttctcc 180
 tgaaggaaat ctgttcattc ttctcattca tatagttata tcaagtacta ccttgcatat 240
 tgagagggtt ttcttctcta tttacacata tatttccatg tgaatttgta tcaaaccctt 300
 attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360
 cattacaaaa ctgctcaaat tgtttggttaa gnttatccat tataattagt tnggcaggag 420
 ctaatacaaa tcacattttac ngacnagcaa taataaaact gaagtaccag ttaaatatcc 480
 aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540
 ttattnagaa tgaattcaca tgttattatt cntagccca acacaatgg 589

<210> 205
 <211> 545
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1) ... (545)
 <223> n = A,T,C or G

<400> 205
 tttttntttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat 60
 agaaaagtgc cttacattta ataaaagttt gtttctcaaa gtgatcagag gaattagata 120
 tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180
 ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240
 aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300
 atggggtgtc actggtaaac caacacattc tgaaggatac attacttagt gatagattct 360
 tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420
 aaggggcnga ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480
 aaggattaga tatgtttcct ttgccaatat taaaaaata ataatgttta ctactagtga 540
 aaccc 545

<210> 206
 <211> 487
 <212> DNA
 <213> Homo sapien

0060330-004500

<400> 206

```
<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G
```

<400> 207

```
<220>  
<221> misc_feature  
<222> (1) ... (524)  
<223> n = A,T,C or G
```

<400> 208

agggcggtggt	gcggaggggcg	ttactgtttt	gtctcagtaa	caataaatac	aaaaagactg	60
gttggtgttcc	ggcccatcc	aaccacgaag	ttgatttctc	ttgtgtgcag	agtgactgat	120
tttaaaggac	atggagcttg	tcacaatgtc	acaatgtcac	agtgtgaagg	gcacactcac	180
tcccgctga	ttcacattta	gcaaccaaca	atagctcatg	agtccatact	tgtaataact	240
tttggcagaa	tacttnttga	aacttgcaga	tgataactaa	gatccaagat	atttcccaa	300
gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360

<223> n = A, T, C or G

acccaaaaat	ccaatgctga	atatttggct	tcattattcc	canattcttt	gattgtcaaa	60
ggattttaatg	ttgtctcagc	ttgggcactt	cagttaggac	ctaaggatgc	cagccggcag	120
gtttatatat	gcagcaacaa	tattcaagcg	cgacaacagg	ttattgaact	tgcccgccag	180
ttnaatttca	ttcccattga	cttgggatcc	ttatcatcag	ccagagagat	tgaaaattta	240
ccctacnac	tctttactct	ctgganaggg	ccagtgggtg	tagctataag	cttggccaca	300
tttttttttc	ctttattcct	ttgtcaga				328

<213> Homo sapien

<223> n = A, T, C or G

acttatgagc	agagcgacat	atccnagtgt	agactgaata	aaactgaatt	ctctccagtt	60
taaagcattg	ctcactgaag	ggatagaagt	gactgccagg	agggaaagta	agccaaggct	120
cattatgcc	aagganatat	acattttcaat	tctccaaact	tcttctctcat	tccaagagtt	180
ttcaatat	tttgcataac	ctgataaanc	catgttaana	aacaaatatc	tctctnacct	240
tctcatcggt						250

<213> Homo sapien

<223> n = A, T, C or G

accagaatc	caatgctgaa	tatttggtctt	cattattccc	agattccttg	attgtcaaag	60
gatttaatgt	tgtctcagct	tgggcacttc	agttaggacc	taaggatgcc	agccggcagg	120
tttatatatg	cagcaacaat	attcaagcgc	gacaacaggt	tattgaactt	gcccgccagt	180
tgaatttcat	tccattgac	ttgggatcct	tatcatcagc	canagagatt	gaaaatttac	240
ccctacgact	ctttactctc	tggagagggc	cagtggtggt	agctataagc	ttggccacat	300
ttttttttcc	tttattcctt	tgtcagagat	gcgattcatc	catatgctan	aaaccaacag	360
agtgactttt	acaaaattcc	tataganatt	gtgaataaaa	ccttacctat	agttgccatt	420
actttgctct	ccctaataata	cctc				444

<400>	217						
acctacgtgg	gtaagtttan	aaatgttata	atttcaggaa	naggaacgca	tataattgta		60
tcttgccat	aattttctat	tttaataagg	aaatagcaaa	ttgggggtggg	gggaatgtag		120
ggcattctac	agtttgagca	aaatgcaatt	aaatgtggaa	ggacagcact	gaaaaatttt		180

```

<400> 221
actangtgca ggtgcgcaca aatattttgtc gatattccct tcatcttgga ttccatgagg      60
tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc      120
ccccactac cttccctgac gctccccana aatcacccaa cctctgt      167

```

$\langle 400 \rangle$ 222

```
<210> 223
<211> 383
<212> DNA
<213> Homo sapien
```

<400> 223

```
<210> 224
<211> 320
<212> DNA
<213> Homo sapien
```

<400> 224

```
<210> 225
<211> 1214
<212> DNA
<213> Homo sapien
```

```
<210> 226
<211> 119
<212> DNA
<213> Homo sapien
```

accagtatg tgcagggaga cggaacccca tgtgacagcc cactccacca ggggttcccaa 60
agaacctggc ccagtcataa tcattcatcc tgacagtggc aataatcacg ataaccagt 119

```
<210> 227
<211> 818
<212> DNA
<213> Homo sapien
```

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
tttttgctac	atatggggtc	ccttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacggtt	cttagacaaa	tttgtgaaat	ctgtgtaraa	ccgggccttg	caggggagat	180
aattttcctc	ctctggagga	aagggtggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgtcccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttctt	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagcgc	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttggtg	tgcgccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggccttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagagqata	tgaaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780

818

<400> 228

```
<210> 229
<211> 300
<212> DNA
<213> Homo sapien
```

<400> 229

```
<210> 230
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 230

```
<210> 231
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 231

gcaagcacgc	tggcaaactct	ctgtcaggtc	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtcacat	ccttggcaac	tggggacttg	cgcagggttag	ccttgaggat	120
ggcaacacgg	gactttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggtg	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccatttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

<210> 232

<211> 301

<212> DNA

<213> Homo sapien

<400> 232

agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggcttctctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtcc	atctgctgtg	aaggagagac	agagaactct	gggttccgtc	gtcctgtcca	180
cgtgctgtac	caagtgtctgg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

<210> 233

<211> 301

<212> DNA

<213> Homo sapien

<400> 233

atgactgact	tcccagtaag	gctctctaag	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctggtgc	gctggcacc	ctggcctcac	acagactccc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgog	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

<210> 234

<211> 301

<212> DNA

<213> Homo sapien

<400> 234

aggctctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
catttttatc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaatttct	tcaggattta	aaatcttgag	ggattgatct	180
cgcctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgcc	240
ttgatcacca	gcttaatggg	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300
t						301

<210> 235

<211> 283

<212> DNA

<400> 235

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggt	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccttaa	cccacatgca	atcttcttca	ccagaagagg	120
tcgggagcagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tgggtagacg	gcttcattgag	tacagtgtac	tgtggtatcg	taatctggac	ttgggttgta	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt	ggtggtggac	gtggcgtttg	tctgtggtgcc	ttttttggtg	cccgtcacaa	60
actcaatttt	tgttcgctcc	tttttggcct	tttccaattt	gtccatctca	attttctggg	120
ccttggctaa	tgccctcatag	taggagtcct	cagaccagcc	atggggatca	aacatatcct	180
ttgggtagtt	ggtgccaaagc	tctgcaatgg	cacagaatgg	atcagcttct	cgtaaatacta	240
gggttccgaa	attctttctt	cctttggata	atgtagttca	tatccattcc	ctcctttatc	300
t						301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcaggttt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacgggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtcg	aggctctcca	gggttcccca	gcccataaat	cattttctgc	180
accccctgcc	tgggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggctctgt	tcttcacagt	aggaggtgga	agggatgact	aattttcttta	300
t						301

<210> 239

<211> 239

<212> DNA

<400> 243

```

aggtaagtcc cagtttgaag ctcaaaagat ctggtatgag cataggctca tcgacgacat      60
ggtggcccaa gctatgaaat cagagggagg cttcatctgg gcctgtaaaa actatgatgg      120
tgacgtgcag tcggactctg tggcccaagg gtatggctct ctgggcatga tgaccagcgt      180
gctggtttgt ccagatggca agacagtaga agcagaggct gccacggga ctgtaaccgc      240
tcactaccgc atgttcaga aaggacagga gacgtccacc aatcccattg cttccatttt      300
t                                                                                   301

```

<210> 244

<211> 300

<212> DNA

<213> Homo sapien

<400> 244

```

gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa      60
gtcatgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc      120
ccaggacact tggaaacagt tgacactgta aggtgcttgc tccccagac acatocctaaa      180
aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc cttctttatt tatgtgaaca      240
actgtttgtc ttttgtgtat ctttttttaa ctgtaaagtt caattgtgaa aatgaatata      300

```

<210> 245

<211> 301

<212> DNA

<213> Homo sapien

<400> 245

```

gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagaggt      60
tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt      120
aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat      180
gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac      240
agctaataaa atgaaagacc taatttctaa agcaattctt tataattttac aaagttttta      300
g                                                                                   301

```

<210> 246

<211> 301

<212> DNA

<213> Homo sapien

<400> 246

```

ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata      60
acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata      120
agtgttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac      180
taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc      240
caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa      300
c                                                                                   301

```

<210> 247

<211> 301

<212> DNA

<213> Homo sapien

<400> 247

```

aggtcctttg gcagggctca tggatcagag ctcaaactgg agggaaaggc atttcgggta      60
gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgttt ccccccagct      120
gtgtcctgtg ttcaggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc      180
ccttgatgat caaggttggg gcttaagtgg attaagggag gcaagttctg ggttccttgc      240
cttttcaaac catgaagtca ggctctgtat cctcctttt cctaactgat attctaacta      300
a                                                                                   301

```

<210> 248

<211> 301

<212> DNA

<213> Homo sapien

<400> 248

```

aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact      60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt      120
acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag      180
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag      240
ctaattgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc      300
c                                                                                   301

```

<210> 249

<211> 301

<212> DNA

<213> Homo sapien

<400> 249

```

gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag      60
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgccccgcc      120
ccaggagagac acagcagtga ctacagagctg gtcgcacact gtgcctccct cctcaccgcc      180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag      240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt      300
a                                                                                   301

```

<210> 250

<211> 301

<212> DNA

<213> Homo sapien

<400> 250

```

ggctctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc      60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc      120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac      180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta      240
caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc      300
a                                                                                   301

```

<210> 251

<211> 301

<212> DNA

<213> Homo sapien

<400> 251

```

gccgaggtcc tacatttggc ccagtttccc cctgcctcct ctccagggcc cctgcctcat    60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat    120
ggcagggggtc ctcaaaaatg ccaactgtcac tgccaggaaa tgcttctgag cagtacacct    180
cattggggatc aatgaaaagc ttcaagaaat cttcagggtc actctcttga aggcccgga    240
cctctggagg ggggcagtgg aatcccagct ccaggacgga tctgtcga aagatatcct    300
c                                                                 301

```

<210> 252

<211> 301

<212> DNA

<213> Homo sapien

<400> 252

```

gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttctca    60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata    120
tcattccttt ttcactagga acccattcaa aatataagtc aagaatctta atatcaacaa    180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag taccctaaagt    240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc    300
a                                                                 301

```

<210> 253

<211> 301

<212> DNA

<213> Homo sapien

<400> 253

```

ttccctaaga agatgttatt ttgttggggt ttgttcccc tccatctoga ttctcgtacc    60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcttagct    120
tggtctgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg    180
gatttttttt cttagagaa cacaaaacat aaaaggagca agtcggactg aatacctgtt    240
tccatagtgc ccacagggtt ttctcaccat tttctccata ggaaaatgct ttttcccaag    300
g                                                                 301

```

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

```

cgctgcgcct ttcccttggg ggaggggcaa ggccagagg ggtccaagtg cagcacgagg    60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaatcccc    120
ccaaatctct tcatcttacc ctggtggact cctgactgta gaattttttg gttgaaacaa    180
gaaaaaaata aagcttttga cttttcaagg ttgcttaaca ggtactgaaa gactggcctc    240
acttaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc    300
t                                                                 301

```

<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

```

agctttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa      60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggat      120
tggtgattttg ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg      180
aggaaaaagg actggagggtg gaatctttat aaaaaacaag agtgattgag gcagattgta      240
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac      300
aa                                                                    302

```

<210> 256

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (301)

<223> n = A,T,C or G

<400> 256

```

gttccagaaa acattgaagg tggttcccca aagtctaact agggataccc cctotagcct      60
aggaccctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc      120
acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcatctctat      180
aggcaaatag ctgctggcaa actggcatta cctggtttgt ggggatgggg gggcaagtgt      240
gtggcctctc ggctgggta gcaagaacat tcagggtagg cctaagttan tcgtgttagt      300
t                                                                    301

```

<210> 257

<211> 301

<212> DNA

<213> Homo sapien

<400> 257

```

gttgtggagg aactctggct tgctcattaa gtctactga ttttactat cccctgaatt      60
tccccactta tttttgtctt tcaatatcgc aggccttaga agaggtctac ctgcctccag      120
tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat      180
gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga      240
tcttaattct cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc      300
c                                                                    301

```

<210> 258

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (301)

<223> n = A,T,C or G

c

301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
 ttagaccttt accttcacag caccacacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaagggtg gtggaaccaa attgtgggtca atggaaatag gagaatatgg ttctcactct 120
 tgagaaaaaa acctaaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
 gtttgatata gtttaggggtt ggggttagat taagatctaa attacatcag gacaaagaga 240
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300
 t 301

<210> 281
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 281
 aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60
 gccgagcaat ccaaactctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120
 atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180
 tgtgtagcac actgcgatta cagctaaata acccgtatct gtgtgtcatg tttgcatttc 240
 tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc 300
 g 301

<210> 282
 <211> 301
 <212> DNA
 <213> Homo sapien

caggtagctac	agaattaaaa	tactgacaag	caagtagttt	cttggcgtgc	acgaattgca	60
tccagaaccc	aaaaattaag	aaattcaaaa	agacattttg	tgggcacctg	ctagcacaga	120
agcgcagaag	caaagcccag	gcagaaccat	gctaacctta	cagctcagcc	tgcacagaag	180
cgcagaagca	aagcccaggc	agaaccatgc	taaccttaca	gctcagcctg	cacagaagcg	240
cagaagcaaa	gcccaggcag	aacatgctaa	ccttacagct	cagcctgcac	agaagcacag	300
a						301

<211> 301

<212> DNA

<213> Homo sapien

atctgtatac	ggcagacaaa	ctttatarag	tgtagagagg	tgagcgaaag	gatgcaaaag	60
cactttgagg	gctttataat	aatatgctgc	ttgaaaaaaa	aaatgtgtag	ttgatactca	120
gtgcatctcc	agacatagta	aggggttgct	ctgaccaatc	aggtgatcat	tttttctatc	180
acttcccagg	ttttatgcaa	aaattttgtt	aaattctata	atggtgatat	gcattcttta	240
ggaaacatat	acatttttaa	aaatctattt	tatgtaagaa	ctgacagacg	aatttgcttt	300
g						301

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

caggtagacaaa	acgctatttaa	gtggccttaga	atttgaacat	ttgtgggtcctt	tattttactttt	60
gcttcgtgtg	tgggcaaaagc	aacatccttcc	ctaaaatatat	attaccaaga	aaagcaagaa	120
gcagattagg	tttttgacaa	aacaaacagg	ccaaaaagggg	gctgacctgg	agcagagcat	180
ggtgagagggc	aaggcatgag	agggcaagtt	tgttgtggac	agatctgtgc	ctacttttatt	240
actggagtaa	aagaaaacaa	agttcattga	tgtcgaagga	tatatacagt	gttagaaatt	300
a						301

<210> 285

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

$$\langle 222 \rangle \quad (1) \dots (301)$$

<223> n = A, T, C or G

acatcaccat	gatcggatcc	cccacccatt	atacgttgta	tgtttacata	aatactcttc	60
aatgatcatt	agtgttttaa	aaaaaatact	gaaaactcct	tctgcatccc	aatctctaac	120
caggaaagca	aatgctattt	acagacctgc	aagccctccc	tcaaacnaaa	ctatttctgg	180
attaaatatg	tctgacttct	tttgagggtca	cacgactagg	caaatgctat	ttacgatctg	240
caaagctgt	ttgaagagtc	aaagccccc	tgtgaacacg	atttctggac	cctgtaacag	300
t						301


```

aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg 180
ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240
tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa 300
a 301

```

```

<210> 293
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 293
ggtaccaagt gctgggtgcc gctgtttacc tgtttctcact gaaaagtctg gctaattgctc 60
ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcttagagc actgactggt 120
aacacaaacg tcactagcaa agtagcaaca gctttaagtc taaatacaaa gctgtttctgt 180
gtgagaattt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg 240
ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat 300
g 301

```

```

<210> 294
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (301)
<223> n = A,T,C or G

```

```

<400> 294
tgaccataaa caatatacac tagctatctt ttttaactgtc catcattagc accaatgaag 60
attcaataaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag 120
tttaactata gtcacaganc ttaaatatcc acattgtttt ctatgtctac tgaaaataag 180
ttcactactt ttctgggata ttcttttaca aatcttatta aaattcctgg tattatcacc 240
cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt 300
t 301

```

```

<210> 295
<211> 305
<212> DNA
<213> Homo sapien

```

```

<400> 295
gtactctttc tctcccctcc tctgaattta attctttcaa cttgcaattt gcaaggatta 60
cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac 120
ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180
actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggt 240
tctcagaacc atttcacca gacagcctgt ttctatcctg ttttaataaat tagtttgggt 300
tctct 305

```

```

<210> 296
<211> 301

```

0059703-061200

<212> DNA
<213> Homo sapien

<400> 296
aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60
cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120
attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180
tttgaanaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240
tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300
c 301

<210> 297
<211> 300
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (300)
<223> n = A,T,C or G

<400> 297
actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60
aagggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120
acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180
tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240
accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (301)
<223> n = A,T,C or G

<400> 298
tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60
ggcatctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgcccggctg 120
tgaagctctc agatcaatca cgggaagggc ctggcggttg tggccacctg gaaccaccct 180
gtcctgtctg tttacatttc actaycaggt tttctctggg cattaonatt tgttccccta 240
caacagtgcac ctgtgcattc tgctgtggcc tgctgtgtct gcagggtggct ctcagcgagg 300
t 301

<210> 299
<211> 301
<212> DNA
<213> Homo sapien

<400> 299

```

gttttgagac ggagtttcac tcttggtgce cagactggac tgcaatggca ggggtctctgc      60
tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct ccaggttagc      120
tggtgattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg      180
gagtttcgcc atgttggtcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct      240
cggcctccca aagtgtctgga attataggca tgagtcaaca cgcccagcct aaagatattt      300
t                                                                                   301

```

<210> 300

<211> 301

<212> DNA

<213> Homo sapien

<400> 300

```

attcagtttt atttgcctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga      60
tatgtccac accactggg aaaggctccc acctggctac ttctctatc agctgggtca      120
gctgcattcc acaagggtct cagcctaatt agtttacta cctgccagtc tcaaaactta      180
gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggtac      240
tataaagcct gcctctaaca gtcttggtt cttcacacca atcccagcgc catcccccat      300
g                                                                                   301

```

<210> 301

<211> 301

<212> DNA

<213> Homo sapien

<400> 301

```

ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc      60
agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt      120
gggaactcac aaagaccctc agagctgaga caccacaac agtgggagct cacaagacc      180
ctcagagctg agacaccac aacagtggga gctcacaag accctcagag ctgagacacc      240
cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt      300
t                                                                                   301

```

<210> 302

<211> 301

<212> DNA

<213> Homo sapien

<400> 302

```

aggtagacat ttagcttggt gtaaattgact cacaaaactg attttaaaat caagttaatg      60
tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac      120
ttgagttggt tcttagtatt atttatggta aataggctct taccatttgc aaataactgg      180
ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca      240
caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg      300
g                                                                                   301

```

<210> 303

<211> 301

<212> DNA

<213> Homo sapien


```

cctctctctc cccacccct gactctagag aactggggtt totcccagta ctccagcaat    60
tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct    120
ccattttctct ttcctttcca cctgccagtt ttgtctgactc tcaacttgctc atgagtgtaa    180
gcattaagga cattatgctt ctctgattct gaagacaggc cctgctcatg gatgactctg    240
gcttcttagg aaaatatttt tcttccaaaa tcagtaggaa atctaaactt atccccctctt    300
tgcagatgtc tagcagcttc agacatttgg ttaagaaccc atgggaaaaa aaaaaatcct    360
tgctaattgtg gtttcctttg taaaccanga ttcttatttg notggtatag aatatcagct    420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt    480
tagtcttaat tatctattgg                                500

```

```

<210> 313
<211> 718
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (718)
<223> n = A,T,C or G

```

```

<400> 313
ggagatttgt gtggttttgc gccgagggag accaggaaga totgcatggt gggaaggacc    60
tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat    120
ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa    180
gtagtgcacat gttttttgcac atttccagcc ctttttaata tccacacaca caggaagcac    240
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<210> 314
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<212> DNA
<213> Homo sapien

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<210> 315
<211> 341
<212> DNA
<213> Homo sapien

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<212> DNA
<213> Homo sapien
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<400> 328

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<210> 333

<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<210> 334

<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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<210> 335

<211> 2984

<212> DNA

<213> Homo sapien

<400> 335

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<211> 147
<212> PRT
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<213> Homo sapien

<400> 336

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			20					25					30		
Pro	Lys	Gln	Pro	Gln	Lys	Arg	Ser	Arg	Ala	Ala	Phe	Ser	His	Thr	Gln
		35					40					45			
Val	Ile	Glu	Leu	Glu	Arg	Lys	Phe	Ser	His	Gln	Lys	Tyr	Leu	Ser	Ala
	50					55					60				
Pro	Glu	Arg	Ala	His	Leu	Ala	Lys	Asn	Leu	Lys	Leu	Thr	Glu	Thr	Gln
65					70					75					80
Val	Lys	Ile	Trp	Phe	Gln	Asn	Arg	Arg	Tyr	Lys	Thr	Lys	Arg	Lys	Gln
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Leu	Ser	Ser	Glu	Leu	Gly	Asp	Leu	Glu	Lys	His	Ser	Ser	Leu	Pro	Ala
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Ala	Phe	Trp													
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<210> 337

<211> 9

<212> PRT

<213> Homo sapien

<400> 337

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<210> 338

<211> 9

<212> PRT

<213> Homo sapien

<400> 338

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<210> 339

<211> 318

<212> PRT

<213> Homo sapien

<400> 339

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 50 55 60
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 65 70 75 80
 Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
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 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100 105 110
 Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
 115 120 125
 Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
 130 135 140
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 165 170 175
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180 185 190
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195 200 205
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
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 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
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 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
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<210> 340

<211> 483

<212> DNA

<213> Homo sapien

<400> 340

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ccttcaattt	tctctttggc	tgacgacgga	gtccgtgggtg	tcccgatgta	actgaccct	300
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<223> n = A, T, C or G

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<210> 351
<211> 472
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<213> Homo sapien
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<212> DNA
<213> Homo sapien
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<400> 354

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<212> DNA
<213> Homo sapien
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<210> 356
<211> 574
<212> DNA
<213> Homo sapien
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<400> 356							
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caagcttccc	atttgtagat	ctcagtgcc	atgagtatct	gacacctgtt	cctctcttca		180
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gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca		360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acagggaagg		420
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<400> 363

<210> 364

<211> 401

<212> DNA

<213> Homo sapien

<400> 364

<210> 365

<211> 356

<212> DNA

<213> Homo sapien

<400> 365

<210> 366

<211> 1851

<212> DNA

<213> Homo sapien

<400> 366

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<213> Homo sapien

<400> 368

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<210> 369

<211> 1853

<212> DNA

<213> Homo sapien

<400> 369

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<210> 370

<211> 2184

<212> DNA

<213> Homo sapien

<400> 370

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<210> 371
<211> 1855
<212> DNA
<213> Homo sapien
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<400> 371

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1855

<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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<210> 373

<211> 1155

<212> DNA

<213> Homo sapien

<400> 373

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<211> 2000
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<213> Homo sapien
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<213> Homo sapien
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 ggcgttctg gagaccacga cgtctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaagggt gggcgcttgg 360
 ggagactacg atgacagtgc cttcatggag ccaggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtgggt aaagtcccca gaaaggatct catcgctatg 480
 ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
 gtccttgaca acaaaaagag gacagctctg ataaaggcgc tacaatgcca ggaagatgaa 660
 tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
 accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
 tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttgggtgta 840
 catgagcaaa aacagcaagt cgtgaaatct ttaatcaaga aaaaagcgaa tttaaatgca 900
 ctggatagat atggaaggac tgctctcata ctgctgtat gttgtggatc agcaagtata 960
 gtcagccttc tacttgagca aaatattgat gtatctctc aagatctatc tggacagacg 1020
 gccagagagt atgctgttct tagtcatcat catgtaattt gccagttact ttctgactac 1080
 aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaca agacttaaag 1140
 ctgacatcag aggaagagtc acaaagggtc aaaggcagtg aaaatagcca gccagagaaa 1200
 atgtctcaag aaccagaaat aaataaggat ggtgatagag aggttgaaga agaaatgaag 1260
 aagcatgaaa gtaataatgt gggattacta gaaaacctga ctaatggtgt cactgctggc 1320
 aatggtgata atggattaat tctcaaagg aagagcagaa cacctgaaaa tcagcaattt 1380
 cctgacaacg aaagtgaaga gtatcacaga atttgcaat tagtttctga ctacaaagaa 1440
 aaacagatgc caaataactc ttctgaaaac agcaaccag aacaagactt aaagctgaca 1500
 tcagaggaag agtcacaaag gcttgagggc agtgaaaatg gccagccaga gaaaagatct 1560
 caagaaccag aaataataaa ggatggtgat agagagctag aaaattttat ggctatcgaa 1620
 gaaatgaaga agcacggaag tactcatgtc ggattcccag aaaacctgac taatggtgcc 1680
 actgctgaca atggtgatga tggattaatt cctccaagga agagcagaac acctgaaagc 1740
 cagcaatttc ctgacactga gaatgaagay tatcacagt acgaacaaaa tgatactcag 1800
 aagcaatttt gtgaagaaca gaactgga atattacag atgagattct gattcatgaa 1860
 gaaaagcaga tagaagtggg tgaaaaaatg aattctgagc tttctcttag ttgtaagaaa 1920
 gaaaaagaca tcttgcagta aaatagtacg ttgcgggaag aaattgccat gctaagactg 1980
 gagctagaca caatgaaaca tcagagccag ctaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040

<210> 376

<211> 329

<212> PRT

<213> Homo sapien

<400> 376

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
 1 5 10 15
 Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
 20 25 30
 Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
 35 40 45
 Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
 50 55 60
 Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
 65 70 75 80
 Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val

Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys
 1075 1080 1085
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr
 1090 1095 1100
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys
 1105 1110 1115 112
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp
 1125 1130 1135
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His
 1140 1145 1150
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp
 1155 1160 1165
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg
 1170 1175 1180
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val
 1185 1190 1195 120
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys
 1205 1210 1215
 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly
 1220 1225 1230
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn
 1235 1240 1245
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys
 1250 1255 1260
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
 1265 1270 1275 128
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr
 1285 1290 1295
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp
 1300 1305 1310
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val
 1315 1320 1325
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala
 1330 1335 1340
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala
 1345 1350 1355 136
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn
 1365 1370 1375
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr
 1380 1385 1390
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr
 1395 1400 1405
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu
 1410 1415 1420
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly
 1425 1430 1435 144
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn
 1445 1450 1455
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser
 1460 1465 1470
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly

000000-000000

1475 1480 1485
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu
 1490 1495 1500
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys
 1505 1510 1515 152
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser
 1525 1530 1535
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu
 1540 1545 1550
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser
 1555 1560 1565
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe
 1570 1575 1580
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe
 1585 1590 1595 160
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly
 1605 1610 1615
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro
 1620 1625 1630
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln
 1635 1640 1645
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile
 1650 1655 1660
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser
 1665 1670 1675 168
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn
 1685 1690 1695
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr
 1700 1705 1710
 Met Lys His Gln Ser Gln Leu
 1715

<210> 379

<211> 656

<212> PRT

<213> Homo sapien

<400> 379

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser

000000-000000-000000

<210> 383

<212> PRT

<400> 383

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
65 70 75 80

<400> 386

gggcccgccta ccggcccagg ccccgccctcg cgagtccctcc tccccgggtg cctgcccgcga 60
 gcccgcctcgg ccagaggggt gggcgcgggg ctgcctctac cggtggcggt ctgtaactca 120
 gcgaccttg cccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcgggcggc 180
 gcggaactttg cccggtgtgt gggggcgagc ggactgcgtg tccgcggacg ggcagcgaag 240
 atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387

<211> 537

<212> DNA

<213> Homo sapiens

<400> 387

gggcccagtc gggcaccaag ggactctttg caggtctcct tcctcggatc atcaaggctg 60
 cccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
 tgaaccagga ccggtctctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180
 ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttcctc agcactgagg 240
 gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggct gtccctctgg 300
 gcgggccagc acttcctcag acacaacttc ttctgctgc tcagtcgtg gggatcatca 360
 cttaccacc cccaagtgc aagaccaaatt cttccagctg ccccttcgt gtttccctgt 420
 gtttgcgtga gctgggcag tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480
 ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

<210> 388

<211> 520

<212> DNA

<213> Homo sapiens

<400> 388

aggataatth ttaaaccaat caaatgaaaa aaacaaacaa aaaaaaaagg aaatgtcatg 60
 tgagggtaaa ccagtttgca ttcccctaatt gtggaaaaag taagaggact actcagcact 120
 gtttgaagat tgctctctct acagcttctg agaatttgtt tatttcactt gccagtgaa 180
 ggacccctc cccaacatgc cccagccac ccctaagcat ggtcccttgt caccaggcaa 240
 ccaggaaact gctacttgtg gacctacca gagaccagga gggtttggtt agctcacagg 300
 acttccccca cccagaaga ttagcatccc atactagact cataactcaac tcaactaggc 360
 tcataactcaa ttgatgggta ttagacaatt ccatttcttt ctgggttatta taaacagaaa 420
 atctttcctc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480
 atgaacttgt cttattttta tggtgggttt ttttctggt 520

<210> 389

<211> 365

<212> DNA

<213> Homo sapiens

<400> 389

cgttgcccc gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
 gagttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
 aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
 aagcctatgg ccagctgtct ttgtgttccc tctcacccgc ctgtcctcac agctgagact 240
 cccaggaaac cttcagacta ccttcctctg ccttcagcaa ggggcgttgc ccacattctc 300

00503793-064500

tgagggtcag tggaagaacc tagactocca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (221)
<223> n = A,T,C or G

<400> 390
tgccctctcca tccctggcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggntt ctcatgggtg tggaacatct ctgcttgccg ttccaggaag gcctctggct 120
gctctangag tctgancnga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gaggagtggt aggagttaag gctggatttc a 221

<210> 391
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (325)
<223> n = A,T,C or G

<400> 391
tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
ctctcgccgc cagcctggag ctgctcctgg catctacca caatcagncg aggcgagcag 120
tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180
naantngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
cactgccag gaatcctaca gccagtaccc tgtcccgacg tctctaccta ccagtacgat 300
gagacctccg gctactacta tgacc 325

<210> 392
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (277)
<223> n = A,T,C or G

<400> 392
atattgttta actccttctt ttatatcttt taacattttc atggngaaag gttcacatct 60
agtctcactt nggcnagnn ctccacttg agtctcttcc ccggcctggn ccagtngnaa 120
antaccanga accgncatgn cttaanaacn ncctgggttn tgggttnntc aatgactgca 180


```
<400> 401
actgtttcca tgttatgttt ctacacattg ctacctcagt gtcctctggaa acttagcttt 60
tgatgtctcc aagtagtcca ctttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnngg tttccaacca ggggaagggt 300
```

cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

<210> 402

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (407)

<223> n = A,T,C or G

<400> 402

atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag cagggtgtgc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaagggtggtc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

<210> 403

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (303)

<223> n = A,T,C or G

<400> 403

cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacccaa 60
tcctaagcaa gagccatggc atggtgaaaa tgcaaaaggga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcatgaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattatttac ataaacctcc attcggtaac catgttgaaa 300
gga 303

<210> 404

<211> 225

<212> DNA

<213> Homo sapiens

<400> 404

aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
attgttaatg cactcattta cctttacatg gtgaaagtct tctcttgatc ctacaaacag 120
acattttcca ctcggtgttc catagtgtt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405

00593793-061300

```
<210> 408
<211> 183
<212> DNA
<213> Homo sapiens
```

```
<210> 411
<211> 261
<212> DNA
<213> Homo sapiens
```

<223> n = A, T, C or G

cttctctcaa ggngaggcaa a 261

<213> Homo sapiens

<223> n = A, T, C or G

a 241

<213> Homo sapiens

<223> n = A, T, C or G

agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<213> Homo sapiens


```
<210> 418
<211> 328
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G
```

<400> 418						
tttttggcgg	tggtggggca	gggacgggac	angagtctca	ctctgttgcc	caggctggag	60
tgcacaggca	tgatctcggc	tactacaac	cctgctctcc	catgtccaag	cgattcttgt	120
gcctcagcct	tcctgtagc	tagaattaca	ggcacatgcc	accacaccca	gctagttttt	180
gtatttttag	tagagacagg	gtttcaccat	gttggccagg	ctgggtctcaa	actcctnacc	240
tcagnggtca	ggctgggtctc	aaactcctga	cctcaagtga	tctgcccacc	tcagcctccc	300
aaagtgcctan	gattacaggc	cgtgaqcc				328

```
<210> 419
<211> 389
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G
```

<400>	419						
cctcctcaag	acggcctgtg	gtccgcctcc	cggcaaccaa	gaagcctgca	gtgccatatg	60	
acccttgagc	catggactgg	agcctgaaag	gcagcgtaca	ccctgtctct	gatcttgctg	120	
cttgtttct	ctctgtggct	ccattcatag	cacagtgtgt	gcactgaggc	ttgtgcaggc	180	
cgagcaaggc	caagctggct	caaagagcaa	ccagtcaact	ctgccacggc	gtgccaggca	240	
ccggttctcc	agccaccaac	ctcactcgct	cccgcaaattg	gcacatcagt	tcttctaccc	300	
taaaaggtagg	accaaagggc	atctgctttt	ctgaagtctt	ctgctctatc	agccatcacg	360	
tggcagccac	tcnqgcctgtg	tcgacgcgg				389	

```
<210> 420
<211> 408
<212> DNA
<213> Homo sapiens
```

<400> 420

gttcctccta	actcctgcca	gaaacagctc	tcttcaacat	gagagctgca	cccctcctcc	60
tggccagggc	agcaagcctt	agccttggct	tcttgtttct	gctttttttc	tggctagacc	120
gaagtgtact	agccaaggag	ttgaagtttg	tgactttggg	gtttcggcat	ggagaccgaa	180

```
<210> 421
<211> 352
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G
```

<400> 421

gctcaaaaat	ctttttactg	atnggcgatgg	ctacacaatc	attgactatt	acggaggcca	60
gaggagaatg	aggcctggcc	tgggagccct	gtgcctacta	naagcacatt	agattatcca	120
ttcactgaca	gaacaggtct	tttttgggtc	cttcttctcc	accacnatat	acttgcagtc	180
ctccttcttg	aagattcttt	ggcagttgtc	tttgtcataa	cccacaggtg	tagaaacaag	240
ggtgcaacat	gaaatttctg	tttcgtagca	agtgcagtgc	tcacaagttg	gcangtctgc	300
cactccgagt	ttattgggtg	tttgtttctt	ttgagatcca	tgcatttctt	gg	352

```
<210> 422
<211> 337
<212> DNA
<213> Homo sapiens
```

```

<400> 422
atgccaccat gctggcaatg cagcggggcgg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgccggcg atcgcggcgg cgtcaatcct ggccaaggct agccgtgata 180
gtgaaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttcgg ccggtacggc tggcctatga aaattat
337

```

```
<210> 423
<211> 310
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G
```

<400> 423

gctcaaaaat	ctttttactg	atatggcatg	gctacacaat	cattgactat	tagaggccag	60
aggagaatga	ggcctggcct	gggagccctg	tgctactan	aagencatta	gattatccat	120
tactgacag	aacaggtctt	ttttgggtcc	ttcttctcca	ccacgatata	cttgcagtcc	180
tccttcttga	agattctttg	gcagttgtct	ttgtcataac	ccacaggtgt	anaaacaagg	240


```
<210> 424
<211> 370
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(370)
<223> n = A,T,C or G
```

```
<210> 425
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G
```

```
<210> 426
<211> 596
<212> DNA
<213> Homo sapiens
```

<400> 426						
cttccagtga	ggataaccct	gttgccccgg	gccgaggttc	tccattaggc	tctgattgat	60
tggcagtcag	tgatggaagg	gtgttctgat	cattccgact	gccccaaagg	tcgctggcca	120
gctctctgtt	ttgctgagtt	ggcagtagga	cctaatttgt	taattaagag	tagatggtga	180
gctgtccttg	tattttgatt	aacctaattg	ccttcccagc	acgactcgga	ttcagctgga	240
gacatcacgg	caacttttaa	tgaaatgatt	tgaagggccca	ttaagaggca	cttcccgtta	300
ttaggcagtt	catctgcact	gataacttct	tggcagctga	gctggtcgga	gctgtggccc	360
aaacgcacac	ttggcctttt	gttttgagat	acaactctta	atcttttagt	catgcttgag	420

<210>	430
<211>	507
<212>	DNA

<220>

$\langle 222 \rangle$ (1) ... (507)

<400> 430

<210> 431

<211> 392

<212> DNA

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (392)$

<400> 431

<210> 432

<211> 387

<212> DNA

<220>

<221> misc feature

<222> (1) ... (387)

<400> 432

```

ggtatccnta   cataatcaaa   tatagctgta   gtacatgttt   tcattggngt   agattaccac   60
aaatgcaagg   caacatgtgt   agatctcttg   tcttattctt   ttgtctataa   tactgtattg   120
ngtagtccaa   gctctcggn   gtccagccac   tgnгааacat   gctcccttta   gattaacctc   180

```

```
<210> 433
<211> 281
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1) ... (281)
<223> n = A,T,C or G
```

```
<210> 434
<211> 484
<212> DNA
<213> Homo sapiens
```

```
<210> 435
<211> 424
<212> DNA
<213> Homo sapiens
```

<400> 435							
gcgcgcgtca	gagcaggtca	ctttctgcct	tccacgtcct	ccttcaagga	agccccatgt	60	
gggtagcttt	caatatcgca	ggttcttact	cctctgcctc	tataagctca	aaccaccaa	120	
cgatcgggca	agtaaacccc	ctccctcgcc	gacttcggaa	ctggcgagag	ttcagcgcag	180	
atgggcctgt	ggggaggggg	caagatagat	gagggggagc	ggcatggtgc	ggggtgaccc	240	
cttgagagaga	ggaaaaaggc	cacaagaggg	gctgccaccg	ccactaacgg	agatggccct	300	
ggtagagacc	tttgggggtc	tggaacctct	ggactcccca	tgctctaact	cccacactct	360	
gctatcagaa	acttaaactt	gaggattttc	tctgtttttc	actcgcaata	aattcagagc	420	

424

```
<220>  
<221> misc_feature  
<222> (1)...(667)  
<223> n = A,T,C or G
```

```
<210> 437
<211> 693
<212> DNA
<213> Homo sapiens
```

```
<210> 438
<211> 360
<212> DNA
<213> Homo sapiens
```

<400> 438

```
<210> 439
<211> 431
<212> DNA
<213> Homo sapiens
```

```
<400> 439
gttcctnnta actcctgcc aacacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gcttttttct tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtccctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctcg cgcggccgcg 420
aatttaqtaq t                                     431
```

```
<210> 440
<211> 523
<212> DNA
<213> Homo sapiens
```

<400> 440						
agagataaaag	cttaggtcaa	agttcataga	gttcccatga	actatatgac	tggccacaca	60
ggatctttttg	tatttaagga	ttctgagatt	ttgcttgagc	aggattagat	aaggctgttc	120
tttaaagtgc	tgaaatggaa	cagatttcaa	aaaaaaaccc	cacaatctag	ggtgggaaca	180
aggaaggaaa	gatgtgaata	ggctgatggg	caaaaaacca	atttacccat	cagttccagc	240
cttctctcaa	ggagaggcaa	agaaaggaga	tacagtggag	acatctggaa	agttttctcc	300
actggaaaac	tgctactatc	tgtttttata	tttctgttaa	aatatatgag	gctacagaac	360
taaaaaattaa	aacctctttg	tgtcctttgg	tcctggaaca	tttatgttcc	ttttaaagaa	420
acaaaaatca	aactttacag	aaagatttga	tgtatgtaat	acatatagca	gctcttgaag	480
tatatatatc	ataqcaaata	agtcattctga	tgaqaacaag	cta		523

```
<210> 441
<211> 430
<212> DNA
<213> Homo sapiens
```

<400> 441
gttctctcta actcctgcc aaacagctc tctcaacat gagagctgca cccctctctc 60
tggccagggc agcaagcctt agccttggt tcttgtttct gcttttttct tggctagacc 120

<223> n = A, T, C or G

gcacatcatt	nntcttgc	tctttgagaa	taagaagatc	agtaaatagt	tcagaagtgg	60
gaagctttgt	ccaggcctgt	gtgtgaaccc	aatgttttgc	ttagaaatag	aacaagtaag	120
ttcattgcta	tagcataaca	caaaatttgc	ataagtggtg	gtcagcaaat	ccttgaatgc	180
tgcttaatgt	gagaggttgg	taaaatcctt	tgtgcaacac	tctaactccc	tgaatgtttt	240
gctgtgctgg	gacctgtgca	tgccagacaa	ggccaagctg	gctgaaagag	caaccagcca	300
cctctgcaat	ctgccacctc	ctgctggcag	gatttgtttt	tgcatacctgt	gaagagccaa	360
ggaggcacca	gggcataagt	gagtagactt	atggtcgacg	cggccgcgaa	tttagtagta	420
gtaga						425

<213> Homo sapiens

<223> n = A, T, C or G

catgtttatg	nttttggtatt	actttgggca	cctagtgttt	ctaaatcgtc	tatcattctt	60
ttctgttttt	caaaaagcaga	gatggccaga	gtctcaacaa	actgtatctt	caagtctttg	120
tgaaattctt	tgcatgtggc	agattattgg	atgtagtttc	ctttaactag	catataaatc	180
tgggtgtgtt	cagataaatg	aacagcaaaa	tgtggtggaa	ttaccatttg	gaacattgtg	240
aatgaaaaat	tgtgtctcta	gattatgtaa	caaataacta	tttcctaacc	attgatcttt	300
ggatttttat	aatcctactc	acaaatgact	aggcttctcc	tcttgtattt	tgaagcagtg	360
tgggtgctgg	attgataaaa	aaaaaaaaag	tgcacgcggc	cgcgaaattta	gtag	414

<213> Homo sapiens

<223> n = A, T, C or G

acaaattaga	anaaaagtgcc	agagaacacc	acataccttg	tccggaacat	tacaatggct	60
tctgcatgca	tgggaagtgt	gagcattcta	tcaatatgca	ggagccatct	tgcagggtgtg	120
atgctgggta	tactggacaa	cactgtgaaa	aaaaggacta	cagtgttcta	tacgtttgttc	180
ccggtcctgt	acgatttcag	tatgtcttaa	tgcagctgt	gattggaaca	attcagattg	240
ctgtcatctg	tgtggtggtc	ctctgcatca	caagggccaa	actttaggta	atagcattgg	300
actgagattt	gtaaaactttc	caaccttcca	ggaaatgcc	cagaagcaac	agaattcaca	360
gacagaagca	aaatacaggg	cactacagtt	cagacaatac	aacaagagcg	tccacgaggt	420
taatctaaaq	ggagcatggt	tcacagtggc	tggactaccg	agagcttggg	ctacacaata	480


```
<210> 447
<211> 585
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1) ... (585)  
<223> n = A,T,C or G
```

```
<210> 448
<211> 93
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1) ... (93)
<223> n = A,T,C or G
```

```
<210> 449
<211> 706
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1) ... (706)  
<223> n = A,T,C or G
```

<400> 449


```

<400> 455
taccaaagag ggcataataa tcagtctcac agtagggttc accatcctcc aagtgaaaaa 60
cattgtttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttcctttg gcacgcacca cattcagggg 180
caaagaatth ctcatagcac agctcacaat acagggtctc tttctcctct a 231

```

<210> 460

gtactctaag attttatcta agttgccttt tctgggtggg aaagtttaac cttagtgact 60
aaggacatca catatgaaga atgtttaagt tggaggtggc aacgtgaatt gcaaacaggg 120

<400> 468						
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aagatctgca	tggtgggaag	gacctgatga	tacagagttt	gataggagac	aattaaaggc	120
tggaaggcac	tggatgcctg	atgatgaagt	ggactttcaa	actggggcac	tactgaaacg	180
atgggatggc	cagagacaca	ggagatgagt	tggagcaagc	tcaataacaa	agtggttcaa	240
cgaggacttg	gaattgcatg	gagctggagc	tgaagtttag	cccaattggt	tactagttga	300
gtgaatgtgg	atgattggat	gatcatttct	catctctgag	cctcaggttc	cccatccata	360
aaatgggata	cacagtatga	tctataaagt	gggatatagt	atgatctact	tcactggggt	420

<400> 469

```

agctctttgt aaattcttta ttgccaggag tgaaccctaa agtgggtcac aagagtgtcc 60
tatttctttc aattaactac aaggacaaac acatctcaaa gttgagataa gtgaccagta 120
tgatttgcca aaattctaaa ggcactcac catgaaatgg ataaagggtta cctttgggga 180
tttgcaactgc atgaattctg tgaaggctt gttggatatt gtgatagaga tagagaaatg 240
aagtatatta tataagatac tatgagggtc cctgcctttg cttcacatcc caggcttaca 300
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tataatcaaa tacactttta gtatttgctg tctcatgtga tgatgaatct catatgtgtc 420
ccttctttgc atgaagtaag atagtcaact tattcaaaac ttacatcat tctagattta 480
agagacaagg aagagcttct caggcagaag gaataatgta tgctgacat gttcaaggaa 540
ttacaagtta gattttgttt aggtgcatgg gaggggttga tggatgac agataaggct 600
ggagggtatgg ggagaggctg tggctgtata cagcctcagt acaaggctaa gcattttaac 660
tttatactgg aaaaaaatc aaacaaaggg gagggataaa ggacttagtc atctttgcac 720
tggaaaacaa aatatgtaat taaattccca tagctgcatg taacattgaa ttctccagg 780
ttaaaaaaaa agttaatcct gtgatattaa tggatgaca ttttgaggtc ttgagaatgg 840
gcacaaaagt gggaaatgaa ttacagtatg ggcaaagaca ctgaggatga tgttgattag 900
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ggtcacctga ggtcaggagt tcaagaccag cctggccaat atggtgaaac cccatctcta 2160
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aatggaatt 2229

```

<210> 470

<211> 2426

<212> DNA

<213> Homo sapiens

<400> 470

```

gtaaattctt tattgccagg agtgaaccct aaagtggctc acaagagtgc cctatttctt 60
tcaattaact acaaggacaa acacatctca aagttgagat aagtgaccag tatgatttgc 120
caaaattcta aagcgactc accatgaaat ggataaagggt tacctttggg gatttgcact 180
gcatgaattc tgtgaaaagc ttgttgata ttgtgataga gatagagaaa tgaagtatat 240
tatataagat actatgaggt tccctgcctt tgcttcacat cccaggctta caaacgtgcc 300

```



```

ccataaacat tccctctgtg gctcttgcac ttcatatatt tatctaaact cttataatca 360
aattacactt ttagtatttg ctgtctcatg tgatgatgaa tctcatatgt gtcccttctt 420
tgcatgaagt aagatagtc aacttattcaa aactttacat cattctagat ttaagagaca 480
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ggcatagtca gataaacgt ggggtgggat tgtaaataga agcaggatat aaagggcatg 2400
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```

<210> 471

<211> 812

<212> DNA

<213> Homo sapiens

<400> 471

```

gaacaaaatg agtaatgtta ttctacagtg tagaaaggtc acagtacaga tctgggaact 60
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gagatcagat attacaacag ctttgttttg agggttagaa atatgaaatg atttggttat 180
gaacgcacag tttaggcagc agggccagaa tctgaccct ctgccccgtg gttatctcct 240
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atttcaaate tgtaatcccc ttcaaataaa tatccacaac aggatctgtt ttctgcca 420
tcctttaagg aacacatcaa ttcattttct aatgtccttc ctcacaagc gggaccaggc 480

```



```

aaactttcta ataagagtta acttagagcc atttaagaaa ggaaaaaaca caaattatca 4140
gaaaaacaac agtaagatca agtgcaaaag ttctgtggca aagatgatga gagtaaagaa 4200
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ttgtgattgt gtgacctgtt gaaagttact taaacctct gtgcctgttt ctttatctgt 5760
aaaatggaga taataagatg tcaaaggact gtggaagaa ttaaagctt taaaaaaaaa 5820
aaaaaaaaa 5829

```

<210> 474

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

```

atztatggat cattaatgcc tcttttagtag tttagagaaa acgtcaaaag aaatggcccc 60
agaataagct tcttgatttg taaaattcta tgtcattggc tcaaatttgt atagtatctc 120
aaaatataaa tatatagaca tctcagataa tatatttgaa atagcaaatt cctgttagaa 180
aataatagta cttaactaga tgagaataac aggtcgccat tatttgaatt gtctcctatt 240
cgtttttcat ttgttgtgtt actcatgttt tacttatgag ggatatatat aacttccact 300
gttttcagaa ttattgtatg cagtcagtat gagaatgcaa ttttaagtttc cttgatgctt 360
tttcacactt ctattactag aaataagaat acagtaatat tggcaaagaa aattgaccag 420
ttcaataaaa ttttttagta aatctgattg aaaataaaca ttgcttatgg ctttcttaca 480
tcaatattgt tatgtcctag acaccttatc tgaaattacg gcttcaaaat tctaattatg 540
tgcaaatgtg taaaatatca atactttatg ttcaagctgg ggctcttca ggcgtcctgg 600
gctgagagag aaagatgcta gctccgcaag ccggagaggg aacaccgcca cattgttaca 660
cggacacacc gccacgtgga cacatgacca gactcacatg tacagacaca cggagacatt 720
accacatgga gacaccgtca cacagtcaca cggacacact ggcatagtca catggacgga 780
cacacagaca tatggagaaa tcacatggac acaccaccac actatcacag ggacacagac 840

```



```
<210> 479
<211> 223
<212> PRT
<213> Homo sapiens
```


<400> 479

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				5					10					15	
Ser	His	Glu	His	Thr	Gly	Ile	Val	Thr	Trp	Thr	Asp	Thr	Gln	Thr	Tyr
			20					25					30		
Gly	Glu	Ile	Thr	Leu	Thr	His	His	His	Thr	Ile	Thr	Gly	Thr	Gln	Thr
			35				40					45			
His	Gly	Asp	Ile	Thr	Thr	Trp	Thr	His	Cys	His	Thr	Thr	Thr	Gly	Thr
	50					55					60				
Arg	Asp	Ile	Thr	Leu	Ser	His	Gly	His	Thr	Ile	Thr	His	Met	Asn	Thr
	65				70					75					80
Pro	Thr	His	Cys	His	Met	Asp	Thr	Ala	Thr	His	Thr	Ala	Thr	Leu	Ser
				85					90					95	
His	Gly	His	Thr	Ser	Ile	Pro	Ser	His	His	His	Thr	His	Cys	His	Val
			100					105					110		
Asp	Thr	Arg	Thr	His	Arg	His	Cys	His	Thr	Asp	Thr	Gln	Asn	Thr	Val
	115						120					125			
Thr	Arg	Arg	His	His	His	Ala	Asp	Thr	Pro	Pro	His	Gly	His	Ser	Thr
	130					135					140				
Arg	His	Ser	Ala	Thr	Gln	Ile	His	His	His	Thr	Glu	Met	Arg	Thr	His
	145				150					155					160
Cys	His	Thr	Asp	Thr	Thr	Thr	Ser	Leu	Pro	His	Phe	His	Val	Ser	Ala
			165					170					175		
Gly	Gly	Val	Gly	Pro	Thr	Thr	Leu	Gly	Ser	Asn	Arg	Glu	Ile	Thr	Trp
		180						185					190		
Thr	Tyr	Ser	Glu	Gly	Lys	Ile	Phe	Phe	Tyr	Phe	Leu	Gly	Asn	Gln	Ala
	195						200					205			
Arg	Leu	Cys	Leu	Lys	Lys	Arg	Lys	Lys	Lys	Gln	Tyr	Thr	Val		
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<211> 145

<212> PRT

<213> Homo sapiens

<400> 480

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Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
20 25 30

Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
35 40 45

Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
50 55 60

Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
65 70 75 80

Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
85 90 95

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
130 135 140

<210> 481

<211> 168

<212> PRT

<213> Homo sapiens

<400> 481

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Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
20 25 30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
35 40 45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
50 55 60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
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130

135

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<210> 483

<211> 144

<212> PRT

<213> Homo sapiens

<400> 483

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Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala

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30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp

35

40

45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu

50

55

60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp

65

70

75

80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg

85

90

95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val

100

105

110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val

115

120

125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys

130

135

140

<210> 484

<211> 30

<212> PRT

<213> Homo Sapien

<400> 484

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25

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<211> 31

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<223> Made in a lab

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31

<211> 27

<212> DNA

<213> Artificial Sequence

<223> Made in a lab

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27

<211> 36

<212> DNA

<213> Artificial Sequence

<223> Made in a lab

ccggaattct tagctgccca tccgaacgcc ttcattc

36

<211> 33

<212> DNA

<213> Artificial Sequence

<223> Made in a lab

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33

<211> 19

<212> PRT

<213> Artificial Sequence

<223> Made in a lab

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Ser Val Ala

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 <213> Artificial Sequence

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 <223> Made in a lab

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<210> 492
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<220>
 <223> Made in a lab

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<210> 493
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<223> Made in a lab

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Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro
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 Lys Tyr Arg Gly
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<210> 494

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Made in a lab

<400> 494

Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
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 Leu Met Ile Ser
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<210> 495

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Made in a lab

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<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 496

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 Pro Pro Pro Pro Ala
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1 5 10 15
 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
 20 25 30
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
 35 40 45
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50 55 60
 Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65 70 75 80
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
 85 90 95
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
 100 105 110
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
 115 120 125
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
 130 135 140
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
 145 150 155 160
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
 165 170 175
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
 180 185 190
 Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
 195 200 205
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
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 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
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<211> 765

<212> DNA

<213> Homo sapien

<400> 524

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 <213> Homo sapien

<400> 525

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Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
      35           40           45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
      50           55           60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
65           70           75           80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85           90           95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
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Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
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<210> 526
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<400> 526

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<400> 530
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<212> DNA

<213> Homo sapiens

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879

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<213> Homo sapiens

<400> 532

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Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu

225 230 235 240
 Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
 245 250 255
 Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
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 <212> PRT
 <213> Homo sapiens

<400> 534
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 Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
 35 40 45

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Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp
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Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu
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Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly
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Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe
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Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser
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Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln
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Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg
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 Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly
 225 230 235 240
 Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys
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 Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg
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 Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn
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 Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly
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Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	
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Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
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 tatgacaaca tatttggtgg taaataacgt tccaagggtc acacacctag caagtaagaa 2460
 agttaggaat taaaccagt attgtgtgaa tctaaagcct aacttttttc tctttatcac 2520
 ccacctacgg cttgtcttca ttaaaggaaa agtgtatoca cttaaaaaaa aaaaaa 2577

<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys

5

10

15

Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly

20

25

30


```
<210> 556
<211> 81
<212> PRT
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<213> Homo sapiens

<400> 556

Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
5 10 15

Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
20 25 30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
35 40 45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
50 55 60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg
65 70 75 80

Ile

<210> 557

<211> 54

<212> PRT

<213> Homo sapiens

<400> 557

Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu
5 10 15

Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
20 25 30

Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
35 40 45

Gly Phe His Ile Arg Phe
50

<210> 558

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(77)

<223> Xaa = Any amino acid

000000-000000-000000

Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
5 10 15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
 20 25 30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
35 40 45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
50 55 60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
65 70 75

<211> 50

<212> PRT

<213> Homo sapiens

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
35 40 45

Pro Arg
50

<210> 560

<211> 56

<212> PRT

<213> Homo sapiens

<400> 560

Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
35 40 45

Thr Asp Leu Phe Leu Pro Pro Leu
50 55

```
<210> 561
<211> 57
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> VARIANT  
<222> (1)...(57)  
<223> Xaa = Any amino acid
```

```
<400> 561
Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys
          5                      10                      15
```

Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser
20 25 30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn
35 40 45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn
50 55

```
<210> 562
<211> 59
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> VARIANT  
<222> (1)...(59)  
<223> Xaa = Any amino acid
```

<400> 562
Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
 5 10 15

Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
20 25 30

Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
35 40 45

Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
50 55

```
<210> 563
<211> 79
<212> PRT
<213> Homo sapiens
```

<400> 563
Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro
 5 10 15

Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
20 25 30

Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
35 40 45

Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
50 55 60

Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
65 70 75

```
<210> 564
<211> 64
<212> PRT
<213> Homo sapiens
```

<400> 564
Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
 5 10 15

Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
50 55 60

```
<210> 565
<211> 57
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> VARIANT  
<222> (1)...(57)  
<223> Xaa = Any amino acid
```

Leu Tyr Tyr Cys Ser Tyr Leu Cys His Phe Arg Thr Ala Leu Ile Leu
5 10 15

Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
50 55

<211> 55

<213> Homo sapiens

Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
5 10 15

Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
20 25 30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro
35 40 45

Leu Lys Leu Val Leu Leu Pro
50 55

<211> 51

<212> PRT

<213> Homo sapiens

Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
5 10 15

Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
20 25 30

Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
35 40 45

Phe Arg Thr
50

<400>	569						
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ggacagatgt	ccgataatcc	tttttacatt	ttggcatcct	tgggtagctc	gtcttgtagg	180	
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<400> 574

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
50 55 60

<211> 77

<212> PRT

<213> Homo sapiens

<400> 575

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
65 70 75

<210> 576

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> unsure

<222> (42)

<223> Xaa = Any Amino Acid

<400> 576

Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr

15

Gln Pro His
50

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
50 55 60

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
50 55 60

<210> 587
<211> 1408
<212> DNA
<213> Homo sapiens

<400> 587
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cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180
cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240
gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgtcaga 360
aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420
agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480
cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgttctcaaa ccaacttcaa 540
tccccctctgc gcttctgatg gyaatatctta tgataatgca tgccaaatca aagaagcatc 600
gtgtcagaaa caggagaaaa ttgaagtcac gtctttgggt cgatgtcaag ataacacaac 660
tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaatgctaa 720
caaattagaa gaaagtgcc aagaacacca cataccttgt ccggaacatt acaatggctt 780
ctgcatgcat gggaagtgtg agcattctat caatatgcag gagccatott gcagggtgtga 840
tgctggttat actggacaac actgtgaaaa aaaggactac agtgttctat acgttgttcc 900
cggctctgta cgatttcagt atgtcttaac cgcagctgtg attggaacaa ttcagattgc 960
tgtcatctgt gtgggtgtcc tctgcatcac aaggaaatgc cccagaagca acagaattca 1020
cagacagaag caaaatacac ggcactacag ttcagacaat acaacaagag cgtccacgag 1080
gttaatctaa agggagcatg tttcacagtg gctggactac cgagagcttg gactacacaa 1140
tacagtatta tagacaaaag aataagacaa gagatctaca catgttgctt tgcatttgtg 1200
gtaatctaca ccaatgaaaa catgtactac agctatattt gattatgtat ggatatattt 1260
gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320
caatawagtt ttttctttcc catgtatttg ttatatataa taaatactca gtgatgagaa 1380
aaaaaaaaa aaaaaaaaaa rwmgaccc 1408

<210> 588
<211> 81
<212> PRT
<213> Homo sapiens

<400> 588
Met Pro Gln Lys Gln Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala
5 10 15

Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys

002790-054560

Ile

<400> 589
Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
5 10 15

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
50 55 60

Pro	Val	Ile	Phe	Ala	Ser	Leu	Val	Gln	Asn	Val	Thr	Lys	Met	Pro	Arg
65					70					75					80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
115 120 125

Val	Asp	Val	Lys	Ile	Thr	Gln	Leu	Gln	Leu	Leu	Ser	Leu	Lys	Met	Gly
130						135					140				

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
145 150 155

<210> 590

<212> PRT

<400> 590

Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr
20 25 30

Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys
50 55 60

Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln
85 90 95

Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser
115 120 125

Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser
145 150 155 160

Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile
180 185 190

Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala
210 215 220


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<210> 601
<211> 547
<212> DNA
<213> Homo sapien
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<400> 601						
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gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaga	240
catgtaatcc	gcggagttag	taactcaaaa	cgagtgcac	tnggaagtat	cgcagccggt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcggtnaa	aaaaacatct	360
gcagcccnng	ggnaaaaacc	ttcgcattgt	tcttacgtgt	ttacgttatt	ttatttccct	420
nnagcaaggc	nggganttgg	ggactcgaaa	tggtacagtt	gggctgggga	tgcgccctgt	480
tacataaaag	ncgtccagaa	gagggacggt	tacaggcnng	ganctccaaa	ggtcagtcct	540
tgccatt						547

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<210> 602
<211> 826
<212> DNA
<213> Homo sapien
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<220>  
<221> misc_feature  
<222> (1) ... (826)  
<223> n = A,T,C or G
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<400>	602						
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taccattcga	gtccctactc	ctgccttgct	ctagggaaat	aaaataacgt	aaacacgtaa		120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgccctgct		180
tagctagcta	gctagctggg	aatttaatcc	agaaaaggct	tgcgatacct	cctagatgca		240
ctcgttttga	gttacaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac		300
tagggaaaaat	tatttttagta	tcagaagaat	atcagggggt	gtagtactca	tcagagctna		360
atgagagcgc	tttaaaaaatg	ttagtttgtc	ttccgccatt	tctacagaaa	gctgcaattt		420
cagggttttca	ncctaataagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagccact		480
gctttttacaa	atcattttttc	tcttctagg	atagcctgtc	aggtggccta	atgtattttt		540
gacatctcta	ggaatttttaa	tagaccagaa	atgggtgcc	gagatatgcc	tgcactaatc		600
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<210> 603
<211> 817
<212> DNA
<213> Homo sapien
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<400>	603								
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tegtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt				180
agtgaggca	tatctctggc	accattttct	ggttctatta	aaattcctag	agatgtc aaa				240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca				300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc				360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc				420
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agcaggggcy	ggnaaanaag	acatctgcag	cctagggaag	aaaacctttc	gcattgttct				660
tacgtgttta	cgttatttta	tttcctanaa	caaggcnгаа	ttgggactcg	aatggttcag				720
ttgggggtggg	ggatccctcg	gtncataaaa	ngtcanaaag	anggtacagg	cggaacncca				780
agggtcgtcc	tgcatttana	ctcggaattt	tqgtgcc						817

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<210> 604
<211> 694
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1) ... (694)
<223> n = A,T,C or G
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[illegible]

<400> 607
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<210> 608
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 608
gataggggtg ctcaggggtt gg 22

<210> 609
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 609
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<210> 610
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 610
ccttgtccag atagcccagt agctgac 27

<210> 611
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 611
gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612
<211> 40
<212> DNA

2025 RELEASE UNDER E.O. 14176

195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618
 <211> 385
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1) ... (385)
 <223> n = A,T,C or G

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 tggcctactg aacctaattgt gcattttaaca agattnacgt ngaaatctgc aaagcacagg 180
 ggcngataac agtaccacct gntctgggtc ctanccccan gaccettaca gtctaactgg 240
 gacacaaggg cttnaaatca aattgcctat cattaagata tacaanganc ntgagaaact 300
 gctncactta tntattaagg ngctctaaga cttagaaacn aaangcantg ctgagangat 360

<220>
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 <222> (1) ... (267)
 <223> n = A,T,C or G

<400> 621
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 ccccaggagg ccatcagtag cgagctactg cctcgccac aacctcccag caggatngcc 180
 cgcggtttcc aatctgcgaa aggaggaccg ccnagccaga aatgccnagc cnagcgatca 240
 ctgccacgcc naggcnagcg ctctgtgc 267

<210> 622
 <211> 847
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1) ... (847)
 <223> n = A,T,C or G

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 acagatgtga aggatattcc ctttaatttg acaataaca tacctggttg tgaggaagaa 180
 gatgcatctg aaatatctgt ctcaagtggta ttcgagacat ttctgaaca aaaagaacc 240
 agtctcaaaa atatcatcca tccatactat catccgtact ctgggtccca ggaacatggt 300
 tgccagtcac cttctaagct tcattttacat gaaaataaat tagactgcga caatgataac 360
 aaactaggca ttggacatat ttttagtaca gataacaact ttcataatga tgcaagcact 420
 aagaaagcaa ggaaccacga agtggttacg gttgaaatga aagaagacca agagtttgat 480
 ttgcaaatga caaaaaatat gaacccaaat agtgacagtg gcagtacaaa taactataaa 540
 agcctgaaac ctaaattaga aaatctgagt tctttaccac cagattctga cagaacatca 600
 ggaagtatat ctacatgaag aattacagca agacatgcc aaagtttaag aatgangtca 660
 acacattaga aanaagantt ctgggctttg aagaaagaaa atgttccact tcataaagaa 720
 gggttgaaaga agaatgggag agccngaana tttttgccn gaaattttcg ggaaccctac 780
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 agggaat 847

<210> 623
 <211> 681
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (681)
 <223> n = A,T,C or G

<400> 623

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<210> 624
<211> 661
<212> DNA
<213> Homo sapien
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aaacacaact	atattttgaa	gatttttctat	ctgcactcaa	ggacactttc	cacncggttg		180
ttgttaccct	ttgggtctgt	ctctgaacat	gaaattnatc	tcaagggatt	ngatttctgg		240
acctcctatt	cctgctatgg	gtttgatatt	tcttgggctc	cagggccact	gttgcatagg		300
gntgacagnt	acctcctagc	ccatanccctc	ctatcttggg	aaacaaacct	aacaactacg		360
tgtaccttcc	atagatctct	gattgagttc	cagtatnccg	ttgctcatgg	gcgattcact		420
tgaatccgtn	attggtgcca	acaatcctga	ctcatgggnn	aatggatcct	atcacgttcc		480
cctgattngc	aacccttgta	tacatanatc	taatcgcata	gaatctagcn	tnggntatgc		540
gcggtctacg	tatcagggnt	tgntaaactat	ngcatggcta	cgaancctga	tcatgatcna		600
gggtcatgga	ctcttatcag	gggggttggg	ccngncttct	ttttcnacc	ttggtaaaac		660
c							661

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<210> 625
<211> 181
<212> DNA
<213> Homo sapien
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<210>	626
<211>	181
<212>	DNA

<213> Homo sapien

<400> 626

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tgtccaagga	gagcagggtt	ctcctgtgaa	aaaaagggtg	ggaaatgttt	gagagtaaaa	120
aatacaaaaat	tcaaccggtc	gaaaatacac	cactccattc	agtgtctctac	ccccataagc	180
c						181

<210> 627

<211> 813

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (813)

<223> n = A,T,C or G

<400> 627

accaagctgg	agctcgcgcg	cctgcaggtc	gacactagt	gatccaaagt	gaacgtgaag	60
gtgagcagag	gagaacttgc	gatggcaaag	ttaaaaacaa	gaggagatga	tggtcttggt	120
gtggcacagg	atgttaaaaa	aattctcctg	tccttaagga	gttactgcta	tttgagtaat	180
gtgccacttc	cctacatagc	cttctatgca	gaaatgctat	atttccactt	cacaaccag	240
aacgtgcatt	ttattttaca	tttagaggag	gaacaaacaa	ccagaaggca	aaaactggtg	300
cattattttt	tgcaattctc	ttggaaagag	ttcgttttta	acttctgctc	agacagcaca	360
caactactgg	gaatatat	taattttcaa	tctgatgtgt	gacatctggt	aactcattta	420
ttgctaata	agttttcaca	ggaagcagca	gtcaccagta	gctcatctta	tttttcagtt	480
ggcaaagtgt	tgtttacctt	ttattggcct	gcacgggtgt	ctcttatcac	aggatattta	540
attagaaaac	gcaagtagcc	taacatagaa	nagaaatgga	gtggtagata	atagtagata	600
gaatggctaa	atatttttat	tacagtgtat	taatatcact	gnaatttatg	gttaaaaatt	660
atgtaatact	caaaaggaat	tctcagactg	gcgaaacagc	tggncaacag	ctntcacagg	720
gctttnanct	cctnttgagc	tttccccctg	ntggacttta	gtcttccttt	tacncccgna	780
gttnccattn	nttaccaatt	gtncggggaa	ana			813

<210> 628

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (646)

<223> n = A,T,C or G

<400> 628

tttggngngn	ggtgtctct	ttgggtggac	tttttgggtc	gtagggcccc	aaggccgtta	60
atcccgtaat	aacggaagac	gaagaagagt	cagaagagt	cttctataag	gatcgggacg	120
agactacctt	agaggaataa	aggaaaaaag	cagaggagga	agagtggtag	aaggagtcag	180
aagaaaccca	cacgtcgctc	tgaacctgga	gccttatcaa	aaaggtctag	ataaacgata	240
gcgatctcga	tatcgagctc	aagaggtagg	tttagagact	tctcgctctc	gagagcgaaa	300
tggaagatct	cgacgacgat	aagaagttaa	agtgtagagg	gtgcttgagg	agcgcggtgga	360

<221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G

<400> 633
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 gctcccaccc gtctctctaa tcctcaggaa cccgatccacc caaccaactt actaatgtcc 120
 tacagtaaac acccgagaat ataaaccac acctaggcct ccaatcctac cagggaagca 180
 agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt 240
 ctctcggaat aggaaagacg actggggagg gaatataggg tagcgcgggg ataggggcta 300
 tggcggtat gggggcggtt cgctctctta ttctttctata ccacgtcaat aggaatgtag 360
 atatacctag atgttcccgt agaaagagac gtttagaggtc tccgaagcta taaaggagag 420
 gcgcgaagaa acttcgtact ctagctttat ataggtagtc gctctagtcc cataagcgac 480
 gagagatcta ctagatttcg gtatcgccgt cgtatgtatt cgaaatagtc ttcttccctt 540
 tttcgatctc ctctctatac tacatggnga ttatagtcnt aagatagtca ggatattagg 600
 atattagtta tatgacgttc gacgggacgg 630

<210> 634
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 634
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 caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcggtga 120
 taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg 180
 gctagttgat tttatcggc gttatagggc ttagttctgg ttatctcggg totaattccc 240
 ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttott 300
 ggaaagctat tcgttattta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt 360
 ttactaccct agtcgggtta gcggtcggtc aaaactagt tagtaccttt acctcctcga 420
 aagttatagt cgaaacaacg tattagtoga aattatagcg gatagatoga gacggttcct 480
 tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc 540
 ttccgcctta gcttccaagg ttccctcgga gcgagggtt ctacttaagt cgntagcgtt 600
 ccttataaac cncctacagg cagacccctt tgtaaacggc tcggggt 647

<210> 635
 <211> 645
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(645)
 <223> n = A,T,C or G

<400> 635

000150-6026500

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acggttatatt	tgtcgtcgac	gtaggtgtcg	tttacgggag	tttcgtttta	ggggtttacg	420
tagaacgtta	ttaagcacgg	taatacgata	gaggattacg	cgacgtattc	gtcttagaac	480
gtcgattttt	cgaaggcgca	tttgttatcg	aaggggagtc	cttggagaat	cgagatattc	540
caagaatatt	acggagatta	cagatcggaa	ggctcccgag	atcggacgta	ttaccggtct	600
cgcccgaaac	gagtaggtat	cntccggata	a			631

<210> 638

<211> 606

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 638

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caataagtcc	ggtcgagtag	agggaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120
taccggtctc	cttcggggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacaggt	cagaaaagtt	aaggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcggggc	tcgggcgcag	ggccactttc	ctcttttcgcg	ttcctttact	ctgcttacga	300
gttcaggctc	cggagttccg	cgccggaggt	cgtcgcgacg	ctaggaatgg	ggactcgctc	360
agtcgccggt	tatccttcgg	gattctatgt	tttcgcgcgat	agacgggagc	cgggtagtag	420
ggttccgctg	taccgccact	cgtcgccttg	atccggcccc	ctccgcttaa	gggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggtcg	540
ggggtcgaag	ggantaagaa	atcgcantcg	cgcggggtcg	gtagganccg	aaatttttct	600
cnnctg						606

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

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atcccaccct	accgcgggga	gtgggttgna	cgcttagttc	tagaatcttc	ggaatcgtec	120
tccggcggtt	gtagttccgg	cgattccgag	tatgccgaag	tgtatcgctc	cgtctagagg	180
ttggtatctg	tttatcgcca	tgacgtatt	gactcggatg	ctttcgaaat	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggccg	catccgtgga	cgcagcgtag	300
acagctctgg	tggacgataa	cggcttctcg	tactcctact	cgggtatta	tgtagagag	360
gacttggttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcaggcggt	420
tctaacagtt	cttcggggcg	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggata	480
ctcttcggtt	agccctcttt	ataggatttc	tcctccgccc	cgaaagangg	ctgggtcgtec	540
cgggcangta	tgtctagctc	gaacgccttg	ttactccttt	gttttcgaaa	na	592

ccattcatgg	aggcctgggn	anttctgtga	ntgacntnga	cnetanaenc	tnccactgtn	180
tgctatccag	acttgnttng	aatatnttat	tggcnaaana	canttnegga	atgctgtgnt	240
tgnn cattga	angatctgat	cactatgaga	gggtgaggac	nnctgctng	ctggcantnt	300
ntaaccn						308

<210> 657

<211> 696

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(696)

<223> n = A,T,C or G

<400> 657

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gtgggtcttg	ttacagtaat	gagttactgt	aaggaaagtg	tgacatttcg	agcaatttga	120
tttgtttaaa	aactagagca	gtttcagggt	tttccttgta	aatctgtctt	atgtgtcttc	180
aatgttcttt	cttgaggagt	agagaaagga	attgttagga	atgatgcata	aaccatggct	240
tattttatct	cgctgccacc	cataatcaga	gcagattctt	gggactatga	ccctcatgga	300
gacatgacaa	ttgtgtgtgt	ggtgggtggg	agaaaagagc	tgggaatttt	tagggctctag	360
aggggtccaat	caggactatt	ttatggagct	ctgctcacca	actttaagtg	agcaccaggg	420
gtgngaaagc	gaatcttggg	ntcaaaaana	caatggnaag	gggtaagtgt	gtatnctgaa	480
ctggccactt	cggactctta	tttaactggg	tattctcant	taaggaggcn	nggggtggtct	540
tggcttgtna	aggaaagcct	gtgcaatgga	atgactttaa	aaccccccat	taaaaaaaaa	600
angntataaa	tcttggtctt	taanaangaa	gcctgggttc	tnttanccca	ttttnccccc	660
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<210> 658

<211> 698

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(698)

<223> n = A,T,C or G

<400> 658

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cttgtgttgt	ttcatgctca	gcgtggaggc	ccctcctcca	ggctgctgct	ctgtgggggt	180
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aagagaaaag	acagggaaaa	taagagaggg	accttgcaca	cacacgctct	ggaccacaga	360
gccctgtgcc	cagctcctct	gtcaatacag	gtggaatctc	gtgcaggatc	gcaggggtct	420
gtgatgccac	caaagagcag	gccgggacag	ggttaggaga	gaaaggagag	ggaagtgggg	480
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ctttgcaccc	acngcacagt	tgtgagacac	ccccatcctn	agatcaaagc	cccacataca	600
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<400> 667
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 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtctc 420
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480
 gtgtagtcta aactttttta aaaagacatg taatccgagg agtttgtaac tcaaaaagag 540
 tgcactagg aggtatcgca agcgttttct ggattaaatt ccagctagc ttgcttgctt 600
 agcaggggag ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatgggtcag 720
 ttgggggtgg ggatccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780
 agggctcgtc tgcatttana ctcggaattt tgggtgcc 817

<210> 668
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (826)
 <223> n = A,T,C or G

<400> 668
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 taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120
 gaacaatgcg aaagcgTTTT cttccctagg ctgcagattg tcttcttcac cgccctgct 180
 tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
 ctggttttga gttacaaact ccgcggtatta catgtctttt taaaaaagtt tagactacac 300
 tagggaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360
 atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
 caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagccact 480
 gctttttaca atcatttttc tcttctaggt atagcctgct aggtggccta atgtattttt 540
 gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcaogaatga 660
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
 cttctcttct taaaatngaa aaaaaaattg tttaaacca naaggtctga ataccaagc 780
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (547)

<400> 669

<210> 670

<212> DNA

 $\langle 220 \rangle$ $\langle 222 \rangle \quad (1) \dots (232)$

<400> 670

<210> 671

<211> 214

<212>. DNA

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (214)$

<223> n = A, T, C or G

<400> 671

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

ngancagcgg	ngtttaaacg	ggcctctaga	ctcgaggaga	cncctgttgg	atggtggatc	60
acanntcgnt	actactatac	aggacagagt	atcggganct	cttggtgtt	ggngcctgcc	120
aaccactgct	nctgttaact	gcgtatctga	agggactcgg	actggcttca	gaagaactac	180
cggctcgaat	gnaccatgga	tgattcncnc	tagttgaaaa	aaaactcagg	cacatgtatt	240
gccactgatg	actagcgcca	gactnctctc	ggctctntaa	cgagcccaca	tgncngtgtg	300
ncncccggtg	tgntccaga	agaggttc				328

<210> 673

<211> 223

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(223)

<223> n = A,T,C or G

<400> 673

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attgtgcatg	aaaatgcaaa	ttgagtgtgg	tctatantgc	catcntcacc	tnctgnncgc	120
tcaaaacaac	ngctttctgc	tgcaatgggt	agggtcctn	acncacggtc	gcnnacggag	180
gccnncttat	cctcntcggt	nnggatccct	ngaagcatnt	tct		223

<210> 674

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 674

gnggggtcnt	ngatgagcgc	gcgtaatacn	atcacntnctn	ggcgngntgg	gtaccgggcc	60
ccccctcnaa	gcggccgccc	ttttttnttt	ttttttcatn	acatgataan	ntctttnttc	120
taaacagacc	acaccactan	agttcctttt	ctttngtacg	gaattgagtt	aaagtagagn	180
atacaatgca	gggcttcnnc	tctatttcac	attccaggnt	ggttcngnat	ggatcggccc	240
tgctctccg	atgggt					256

<210> 675

<211> 439

<212> DNA

<213> Homo sapien

0061301666660

<220>

<221> misc_feature

<222> (1) ... (439)

<223> n = A,T,C or G

<400> 675

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ttntttggga	aatgttngtg	ttactatntt	ttggatatna	tatatgatat	gtatggccct	120
tctatgggct	cctcanacng	aactcaacca	ttttccacaa	aacnattcc	tcctttccct	180
tcatgactga	gtggtggttg	tactatccng	gaaactggga	cattgtcctt	cacatctntc	240
ccttanctgc	ctngtccnat	tgatgtcttt	gagctntgan	atgtctttgt	taactntctc	300
ctnctctgt	actgccggca	naattaagca	ccatntgtca	caaaaagtat	tgcgttacct	360
tcacgnatct	gttngttnc	atncttgctg	cttctccngn	ggaaaatagg	ctnttctggc	420
aaccgaacng	aanaaatac					439

<210> 676

<211> 587

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (587)

<223> n = A,T,C or G

<400> 676

ngngggcctn	attaagcgcg	cgtaatacna	ctcactntgg	ggcgaattgg	gtaccgggnc	60
cccctcaagt	tnatntgccn	aacctctctt	ttggaataac	aaaagggtta	acacatatgt	120
cctcataggg	acgcgctttc	acacnttcct	gacngcttca	tanacntcat	tnctattttc	180
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taaagacctc	agnatttcat	gctcctggaa	atcccatggg	ttgaacaaca	ggtntttggc	480
ccgtggttct	ntccctttgn	ccatctttta	accttggggt	aaatgatggc	ntctntnagc	540
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<210> 677

<211> 444

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (444)

<223> n = A,T,C or G

<400> 677

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gttgaactgt	ncaacgattt	catgaaattc	tatacacana	gccttcaggt	ccagagagta	180

aaacaaattt	aaatttnttc	accanattgn	agcagncana	agcatccnat	natatccgac	240
tacaatgaat	natatgctna	nggtanctna	tttaccact	ntgggggtctt	tanggtctgt	300
cacaaactat	tttcgtaaac	atcnmtttaa	anttnggtga	atggacctaa	tnccagataa	360
ntctatttna	tnaccctag	catnccgtg	gctnactttt	cgggctgtgt	tggcntactt	420
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<210> 678

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 678

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ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tccnnanaaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggt	ctggaagggt	tttcagattg	cttaaganac	300
gngcccttc	catattcntc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
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tggttggttg	caaatgcngg	aatttggtta	ctttcntcat	gtcctgtggt	gnncnaaccg	540
gctcncttgt	tgccctccctt	tnaaagggtt	ttcatcaggg	cccgcctttt	ctcttntaan	600
ngtcctaate	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
cgcgtcgggt						670

<210> 679

<211> 449

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 679

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tgcttcctag	tcctgtttgt	cctnttcccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tcgggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
ncctccatcg	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgate	300
cctcccntac	ctcccnnncc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttacccecn	gaacncagcg	420
aacngcnaca	ccttggaant	caagaanta				449

<210> 680

<400> 687

<210> 688

<211> 740

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (740)$

<223> n = A, T, C or G

<400> 688

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ttggtncct	tccttttaaaa	attggctaaa	aattntttnt	tatnccacc	ccattggaan	660
tncccccccc	ctggaacaat	tggattcccc	tatttcttaa	aaaacggc	cccccccg	720
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<210> 689

<211> 635

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

<222> (1) ... (635)

<223> n = A, T, C or G

<400> 689

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acatctccgt	cttcacctct	caaaaacttct	ttcaattctt	tggctcttaa	tagtaatcaa	180
cacttgcact	ctggagtcac	tgtaattctt	gtccttttac	agctacnctt	gttattttcca	240
gctgaatatt	tttagttatt	tcccaggggt	ccaaaaaaca	gcaataagta	ctacacaaaag	300
gggggtgggcc	ataaccagaa	atgtttggga	aatactggct	catgtatgca	atgccaaatc	360


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<210> 699

<211> 2051

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (2051)

<223> n = A,T,C or G

<400> 699

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<400> 702

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<210> 703
 <211> 2904
 <212> DNA
 <213> Homo sapiens

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<212> PRT

<213> Homo sapiens

<400> 708 .

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Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
50 55 60

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
65 70 75 80

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
85 90 95

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
100 105 110

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
115 120 125

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
130 135 140

Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
145 150 155 160

Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
165 170 175

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
180 185 190

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
195 200 205

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
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122

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<211> 168
<212> DNA
<213> Homo sapiens
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```

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aganatntcg	gncgcttcac	tantcatcct	tcttacccan	ntctctngat	nencagntng	180	
ancntgaacg	cacactacng	gatntctcca				210	

$$\begin{aligned} \langle 210 \rangle & 720 \\ \langle 211 \rangle & 131 \end{aligned}$$

$\langle 220 \rangle$

[illegible]

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<210> 738

<212> DNA

<220>

<222> (1) ... (137)

<400> 738

<210> 739

<212> DNA

$\langle 220 \rangle$

<222> (1) ... (970)

<400> 739

<210> 740


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```

```

<210> 742
<211> 739
<212> DNA
<213> Homo sapiens

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```

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```

```

<210> 743
<211> 610
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=A,T,C or G

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```

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<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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Arg	Thr	Pro	Ser	Asp	His	Tyr	Asn	Trp	Gln	Ala	Thr	Leu	Gln	Asn	Glu
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<210> 780

<211> 1095

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(1095)

<223> Xaa = Any Amino Acid

<400> 780

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